Environmental Resources Management

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August 28, 1998

Mr. Craig Zellar, RPM U.S. Environmental Protection Agency 61 Forsyth St., SW Atlanta, GA 30303

RE: Twelvemile Creek/Lake Hartwell

1998 Fish and Sediment Monitoring Report

Dear Mr. Zellar:

Attached please find one copy of the above referenced report. The 1998 data indicate significant findings in the reduction of PCB concentration in sediment, <u>Corbicula</u>, and fish tissue. These findings clearly indicate a reduction of PCBs in the Twelvemile Creek/Lake Hartwell system.

If you have any questions concerning these data, do not hesitate to contact me.

Regards,

James R. Orr Senior Scientist

Enclosure JRO/gsq

c: Butch Youngmer

Cliff Kirchof Brian Curtis

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FISH AND SEDIMENT STUDY

RMT, Inc Stafford, Texas

Lake Hartwell 1998 Fish and Sediment Study Operable Unit 2 ROD Monitoring Program

August 1998

Environmental Resources Management 7106 Crossroads Boulevard Suite 228 Brentwood, Tennessee 37027

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Project Manager

Reviewed by

Environmental Resources Management

7106 Crossroads Boulevard Suite 228 Brentwood, Tennessee 37027

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EXECUTIVE SUMMARY

A total of 153 fish samples, represented by largemouth bass, hybrid bass, channel catfish, bluegill, threadfin shad and gizzard shad were collected from six locations in Lake Hartwell during April and May 1998 Fish were analyzed for PCBs by SW-846 Method 8082 with the seven primary Aroclors reported. The locations included Twelvemile Creek (SV-107), Martin Creek (SV-106), Eighteenmile Creek (SV-532), Andersonville Island (SV-535), Tugaloo River (SV-641), and the Lake Hartwell Dam (SV-642).

Standard fillets were taken from large individual fish (largemouth bass, hybrid bass, and channel catfish) and analyzed for PCBs while forage species were analyzed as whole body composites. A standard fillet as defined by the U.S FDA is a scaled, skin-on fillet that includes the rib cage (skin was removed from the catfish fillets).

Largemouth bass, hybrid bass and channel catfish in Lake Hartwell continue to have PCB concentrations above the USFDA's recommended tolerance level of 2.0 ppm at selected sites. The highest level of contamination continues to occur in the Seneca River Arm of Lake Hartwell in the vicinity of the Twelvemile Creek embayment. At this station (SV-107), largemouth bass had mean total PCB concentrations of 8.69 ppm while the highest mean value for catfish was found at SV-106 at 2.53 ppm. The highest level of PCB in hybrid bass occurred at station SV-532 where the mean total PCB concentration was 3.58 ppm.

Forage fish indicated levels greater than 2.0 ppm in whole body tissues in four of the nine composite samples. The highest concentrations of PCBs were detected in blue gill, with the mean total PCBs detected at 4 08 ppm at station SV-107. The concentration of PCBs in gizzard shad at Station SV-107 was 3.09 ppm. The concentration of PCBs was significantly lower from station SV-107 to SV-532 to SV-641 in the forage fish species, and significantly lower than the 1997 data.

There continues to be a decreasing gradient of PCB contamination in largemouth bass and channel catfish from the Twelvemile Creek embayment to the dam. The concentration of PCBs in hybrid bass do not indicate as significant of a decreasing gradient. This is most probably due to hybrid bass being migratory fish and spending time in various areas of the lake. The PCB concentration detected in hybrid bass at station SV-107, SV-535, SV-641, and SV-642 is generally less than at SV-106 and SV-532.

The generally lower PCB concentration in hybrid bass at station SV-107may be due to the movement of hybrids into the Keowee River, where PCBs have been detected at lower concentrations in the past.

The nine-year trend evaluation indicates that PCB concentrations in largemouth bass are declining at SV-107, while remaining relatively similar at the other five sites in the study. Average tissue concentrations were above 2.0 ppm at SV-107 and SV-106. Decreases were observed in largemouth bass tissue at stations SV-535 and SV-642 over the 1997 values with slight increases observed at the other stations. The data also indicate that PCB concentrations in channel catfish increased at only one station, SV-106, from 1997 to 1998. Station SV-106 was also the only location with a mean PCB value greater than 2.0 ppm. Two of the four catfish collected from station SV-106 had PCB concentrations of 3 0 ppm or greater while no other catfish at any location had a PCB concentration greater than 2.0 ppm.

Due to the migratory habits of the hybrid bass, increasing or decreasing trends in PCB concentrations are generally not observed. However, the 1998 values appear to be reduced from 1997, particularly at stations SV-107 and SV-532. While the PCB concentrations in hybrid bass are greater than 2.0 ppm at all stations, there is also a downward trend at all stations. There are few clear trends, however, within these species at each site. The concentration of PCBs significantly decreased in bluegill at SV-107, from 1997 to 1998 and to a lesser extent at SV-532 and SV-641. The PCB concentrations in threadfin shad increased at stations SV-532 and SV-641 from 1997 to 1998, but concentrations were not above the four-year high. The concentration of PCBs in gizzard shad decreased at all three stations to the lowest values in the past four years. Forage fish (bluegill, threadfin shad, and gizzard shad) have been sampled consistently for the past four years, 1995-1998. These data indicate a consistent decrease in PCB with distance from the Twelvemile Creek Arm.

PCB concentrations were analyzed in sediment samples from 21 stations throughout the study area, including the Twelvemile Creek watershed (six locations) and Lake Hartwell (ten locations in the Twelvemile Creek and Seneca River Arm and five in the main body of the lake.) Composite samples of sediment were collected across the channel at each station with a ponar dredge (sampling approximately the top six inches of sediment) in the lake, while grab samples from depositional areas of fine silt material were collected in the creek stations. Both PCBs and total organic carbon (TOC) were analyzed from each sample in order to determine the correlation between PCB concentrations and organic material in the sediment. In general, the PCB concentrations in sediment were

ERM

significantly lower in 1998 than 1997 and the lowest in the last four years for many stations

The highest concentration of PCBs was detected at stations SD-009 and SD-011 (2.83 ppm), which is approximately 6 0 ppm lower than the 1997 maximum values. The concentration detected at SD-013, historically the station with the highest PCB values, was 2.25 ppm. A total of 13 of the 20 locations were lower in PCB concentrations during 1998 than 1997, while four of the 20 were non-detect and three were slightly higher. The PCB concentrations tended to decrease in both upstream and downstream directions from SD-011 In general, the total organic carbon (TOC) content at each station was also lower than previous years.

The TOC data identify a number of depositional areas including SD-009, SD-011 through SD-013, SD-106, and generally SD-535, SD-641, and SD-642. The TOC was significantly lower at SD-642 than historic values These lower TOC values may explain the lower sediment PCB concentrations.

A 28-day Corbicula_study was conducted at seven locations in the Twelvemile Creek area. Approximately 50 Corbicula were placed in baskets at each of the seven locations in Twelvemile Creek and analyzed for PCBs following the 28-day incubation period. Corbicula from Wolf Creek were used as reference organisms where a concentration of 0 225 ppm was detected. The concentration of PCBs ranged from 0.136 ppm at the upstream control site in Town Creek (C-O) to 2.88 ppm in Twelvemile Creek at the Highway 137 Bridge (duplicate). The concentration of PCBs in Corbicula, located downstream of the Sangamo Weston facility in Town Creek, was 2.14 ppm. This is significantly down from the 7.59 ppm detected in 1997.

Corbicula have been analyzed for four consecutive years. The trends indicated by these data are: 1) generally low background concentrations of PCBs in Town, Wolf, and Twelvemile Creeks, 2) relatively similar levels of bioaccumulation at stations downstream of the facility (C-1, C-3, C-5, and C-6), and 3) significantly lower concentrations in 1998

1.0 INTRODUCTION

During 1976, the South Carolina Department of Health and Environmental Control (SCDHEC) and the United States Environmental Protection Agency (U.S. EPA) discovered that fish from certain areas of Lake Hartwell (Anderson, Pickens and Oconee Counties) were contaminated with polychlorinated biphenyls (PCBs). This contamination was above the safe tolerance level for consumption of fish by humans established by the United States Food and Drug Administration (USFDA). Subsequent to these findings, a fish consumption advisory was issued for portions of Lake Hartwell as a conservative measure to reduce human exposure.

The SCDHEC has conducted yearly studies in Lake Hartwell since 1976 to evaluate the level of PCB contamination in fish. The primary focus of these studies has been to gather current PCB data for yearly updates in the fish consumption advisory. Annual results are available through 1993. During 1990, portions of Lake Hartwell became eligible for Superfund clean-up funds under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. As a part of the June 1994 Final Record of Decision (ROD), aquatic biota monitoring and sediment sampling were required. The aquatic biota monitoring primarily includes a comprehensive fish tissue study, which involves fish tissue sampling similar to the historic annual monitoring by the SCDHEC.

Summarized in this report are the results of the 1998 fish tissue, *Corbicula*, and sediment study of Lake Hartwell. In addition, the fish tissue data collected by the State of South Carolina, Savannah District Corps of Engineers, and ERM from 1990 to present are included in bar charts to identify trends in PCB concentrations.

2.0 METHODS

Fish, sediment, and *Corbicula* sampling was conducted in accordance with the procedures prescribed in the Final Record of Decision dated June 1994, and in coordination with SCDHEC, the Savannah District Corps of Engineers and U.S. EPA Region IV. Mr Butch Younginer of SCDHEC, Mr. Andy Gaston of the Savannah COE as well as the South Carolina Fish and Game Commission were notified prior to sampling. Representatives from each agency did not request to participate in the sampling. Fish selected included: largemouth bass (Micropterus salmoides), hybrid bass (Morone sp.), channel catfish (Ictalurus punctatus), bluegill (Lepomis macrochirus), gizzard shad (Dorosoma cepedianum) and threadfin shad (Dorosoma petenense). A total of eight striped bass (Morone saxatilis) and one white bass (Morine chrysops) were substituted for hybrid bass due to the lack of an adequate size of hybrid bass at some stations.

Fish were collected from April 13 through April 24 by electrofishing and gill netting techniques. Fish were kept on wet ice from the time of sample collection to dissection. After sample collection, fish weight (g) and length (mm) were measured and recorded in a logbook prior to fillet collection. Data recorded for each sample included species, location, weight, length, date, sex, grab or composite sample type, and sample number. Fillets were collected with a pre-cleaned stainless steel fillet knife.

Prior to fillet sampling, fish were placed on a table covered with clean sheets of aluminum foil. Foil was changed between fish species and stations. All fillets and whole fish samples were wrapped in aluminum foil (dull side to the tissue), placed in a zip-lock or plastic bag, labeled and placed on ice. Samples were sent to the analytical laboratory on wet ice, rather than frozen, to facilitate sample preparation and reduce sample handling. Fat deposits and viscera were removed from each fillet rib cage prior to wrapping of the sample. Sample collection was conducted in the field at various sample locations. The sampling equipment was decontaminated with detergent wash, deionized water rinse, pesticide grade isopropanol rinse, and deionized water rinse between each species and station. Equipment rinse blank and trip blank samples were collected every 20 samples. One in 20 samples were identified for duplicate analysis and split from the sample in the laboratory after grinding. The size class range of fish included:

largemouth bass	1.5-3.0 lbs (682-1,364 g)
channel catfish	1.5-4.0 lbs. (682-1,818 g)
hybrid bass	3.0-5.0 lbs. (1,364-2,273 g)
bluegill	3-5 inches (76-127 mm)
gizzard shad	>12 inches (>305 mm)
threadfin shad	>3 inches (>76 mm)

Fish were sent overnight by Federal Express to Northeast Analytical Laboratory Services (NEA) in Schenectady, New York, a South Carolinacertified laboratory. The fish samples were received at 4° centigrade.

Sediment samples were collected with a petite ponar dredge on April 22 through April 24, 1998. Rainfall had been heavy during April and both Town Creek and Twelvemile Creek were higher than normal. The dredge has a six inch by six inch opening. In soft sediments, it will collect to a depth of approximately six inches. Five grab samples were collected across the channel (typically bank to bank) at each open water location, and individual grab samples were collected in the Twelvemile Creek stream locations. Composite samples were thoroughly mixed in an aluminum container prior to sampling with a clean stainless steel spoon. Each sample consisted of two four-ounce glass jars. Samples were immediately placed on ice through sample delivery.

The ponar, an aluminum container used for mixing the composite samples, and stainless steel spoons were decontaminated between sample locations using a detergent wash, deionized rinse, pesticide grade isopropanol rinse, and another deionized rinse. Equipment rinse blank and trip blank samples were collected each day with the sediment samples, and two duplicates were collected for a total of 23 sediment samples. Samples were shipped on ice overnight to NEA Both fish and sediment samples were analyzed by SW-846 Method 8082 for PCBs.

A total of seven sample locations were utilized for the analysis of bioconcentration of PCBs in *Corbicula* tissue. Reference organisms were collected from Wolf Creek and transported the same day to the other test locations.

Corbicula from Wolf Creek were utilized because of the low PCB concentrations detected at this location in the past, the great abundance of Corbicula at this location, and the reduction in handling time believed to have resulted in a number of mortalities during 1995. Corbicula were retrieved after 28 days of incubation (April 24 through May 21, 1998), placed in labeled plastic bags, and stored directly on ice. Baskets were collected from each site with no mortalities noted.

Organisms were transported to the ERM laboratory on ice and then frozen. After freezing to euthanize the *Corbicula*, samples were shipped to NEA for dissection and analyses.

3.1 FISH

Sampling locations were selected to coincide with previous Lake Hartwell sample collections. The six fish tissue sampling locations are depicted on Figure 1. Also illustrated in Figure 1 are the mean PCB concentrations for the three filleted fish species sampled during 1998. Figures 2 and 3 depict the sediment sample locations in Lake Hartwell and the Twelvemile Creek watershed, respectively. Included in Figures 2 and 3 are the PCB concentrations detected during the 1998 sampling period. Provided in Table 1 is the summary of the 1998 Fish Tissue Study results with the analytical data sheets provided in Appendix A. Included in Table 1 are the sample number, sample date, sampled species, length, weight, sex and PCB concentration. The breakdown of the specific Aroclors for each fish sample are summarized in Table 2. These data indicated the presence of Aroclor 1254 and 1260. Presented in Table 3 are the PCB concentrations in each largemouth bass collected from each location, as well as the mean and standard deviation for each station. The mean data are also graphically depicted on this table to illustrate the trends in mean concentrations between stations. Similar information is presented in Tables 4 and 5 for hybrid bass and channel catfish, respectively. These data are summarized for bluegill, threadfin shad and gizzard shad in Table 6.

The PCB concentrations exceeded the 2.0 ppm FDA tolerance level in largemouth bass fillets at two of the six locations. The mean values at stations SV-107 and SV-106 were 8 69 ppm and 4.05 ppm, respectively. The PCB concentrations were less than 0.4 ppm at stations SV-641 and SV-642. The 2.0 ppm FDA limit was exceeded in six of the six stations by hybrid bass fillets. The maximum mean value was detected at SV-532 (3.58 ppm), and the lowest mean value was detected at the station nearest the dam, station SV-642 (2.04 ppm). The FDA limit was exceeded at station SV-106 only in catfish fillets with a mean value of 2.53 ppm. The PCB concentrations in all other locations were less than 2.0 ppm in catfish fillets.

The mean PCB concentration in whole tissue samples of forage fish (Table 6) indicates various degrees of bioaccumulation with four of the nine samples greater than 2.0 ppm. Unlike previous studies, the concentration detected in gizzard shad was lower than in either bluegill or threadfin shad, with one exception (gizzard shad were higher than blue

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Table 7 Lake Hartwell OU2 Sediment Sampling Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date			Aroc	Aroclor Identification- ug/g	tion- ug/g			Total	_roc
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g	g/gu
SD000	4/24/98	< 0 153	< 0 153	< 0 153	< 0 153	< 0 153	< 0 153	< 0 153	0	2,400
SD001	4/24/98	< 0 142	< 0 142	< 0 142	< 0 142	< 0 142	< 0 142	< 0 142	0	_1,500
SD002	4/24/98	< 0 138	< 0 138	< 0 138	< 0 138	< 0 138	0 229	< 0 138	0 229	1,400
SD003	4/24/98	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	0	2,000
SD004	4/24/98	< 0 153	< 0 153	< 0 153	0 274	< 0 153	0 400	< 0 153	0 764	2,300
SD005	4/24/98	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	< 0 145	0	_<1,300
Dup 2 (005)	4/24/98	< 0 151	< 0 151	< 0 151	0 403	< 0 151	0 558	< 0.151	0 961	2,400
SD006	4/22/98	< 0 141	< 0 141	< 0 141	0 255	< 0 141	< 0 141	< 0 141	0 255	1,500
SD007	4/22/98	< 0 142	< 0 142	< 0 142	< 0 142	0 283	< 0 142	< 0 142	0 283	5,100
SD008	4/22/98	< 0 141	< 0 141	< 0 141	< 0 141	< 0 141	< 0 141	< 0 141	0	1,500
8D009	4/22/98	< 0 285	< 0 285	< 0 285	0 738	< 0 285	1 340	0 334	2 41	23,000
Dup 1 (009)	4/22/98	< 0 290	< 0 290	< 0 290	1 70	< 0 290	1.13	< 0 290	2 83	29,000
SD010	4/22/98	<0.257	<0 257	<0 257	1 03	<0 257	1 02	<0 257	2 05	18,000
SD011	4/22/98	< 0 343	< 0 343	< 0 343	1 66	< 0 343	1 17	< 0 343	2 83	29,000
SD012	4/22/98	< 0 479	< 0 479	< 0 479	1 45	< 0 479	1 08	< 0 479	2 53	35,000
SD013	4/22/98	< 0 344	< 0 344	< 0 344	1 69	< 0 344	0 561	< 0 344	2 25	25,000
SD014	4/22/98	< 0 344	< 0.344	< 0 344	906 0	< 0 344	0 406	< 0 344	131	21,000
SD015	4/23/98	< 0 291	< 0 291	< 0 291	0 712	< 0 291	0 320	< 0 291	1 03	25,000
SD106	4/23/98	< 0 425	< 0 425	< 0 425	0 514	< 0 425	< 0 425	< 0 425	0 514	32,000
SD532	4/23/98	< 0 209	< 0 209	< 0 209	0 425	< 0 209	0 456	< 0.209	0 881	25,000
SD535	4/23/98	< 0 274	< 0 274	< 0 274	< 0 274	< 0 274	< 0 274	< 0 274	0	24,000
SD641	4/23/98	< 0 215	< 0 215	< 0 215	< 0 215	< 0 215	< 0 215	< 0.215	0	29,000
SD642	4/23/98	< 0 247	< 0 247	< 0 247	< 0 247	< 0 247	< 0 247	< 0 247	0	13,000

TOC Total Organic Carbon

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Table 8 Lake Hartwell OU-2 Study 1998 Corbicula Tissue Analysis RMT, Inc., Stafford, Texas

Station		Arocl	or Identif	ication and	d PCB Co	Aroclor Identification and PCB Concentration (µg/g	n (μg/g)	
N	1016	1221	1232	1242	1248	1254	1260	Total
C-0: Town Creek upstream of Sangamo Weston	< 0.114	< 0.114	< 0.114	< 0.114	0.136	< 0.114	< 0.114	0.136
C-1- Town Creek downstream of Sangamo Weston	1 < 0.241	< 0.241	< 0.241	< 0.241	2.14	< 0.241	< 0.241	2.14
C.2. Twelvemile Creek upstream on Town Creek	< 0.119	< 0.119	< 0.119	< 0.119	0.175	< 0.119	< 0.119	0.175
C.3. Twelvemile Creek at Algood Bridge	< 0.248	< 0.248	< 0.248	< 0.248	2.56	< 0.248	< 0.248	2.56
C4: Wolf Creek	< 0.123	< 0.123	< 0.123	< 0.123	0.225	< 0.123	< 0.123	0.225
C-5: Twelvemile Creek at 137 Bridge	< 0.249	< 0.249	< 0.249	< 0.249	1.81	< 0.249	< 0.249	1.81
C-5: Dunlicate	< 0.244	< 0.244	< 0.244	< 0.244	2.88	< 0.244	< 0.244	2.88
C-6: Twelvemile Creek at Maw Bridge (Hwy 337)	< 0.235	< 0.235	< 0.235	< 0.235	2.10	< 0.235	< 0.235	2.1
				<u>.</u>				

Hartwell ranged from less than 142 ppm to 0 961 ppm (duplicate of SD-005), with less than 0.142 ppm reported directly downstream of the Sangamo Weston outfall (SD-001) This value indicates a significant decrease from all previous values. A value of less than 0.153 ppm was reported for the station upstream of the outfall in Town Creek (SD-000) The PCB concentrations also declined in a downstream direction from the maximum value in the Twelvemile Arm (SD-011) to concentrations less than 0.215 ppm near the dam and in the Tugaloo River Arm In addition to the total PCB values given in Table 7, the various PCB Aroclors are identified for each sample. Aroclors identified in the sediment, in descending order of concentration and occurrence primarily include: 1242, 1254, 1260, and 1248 Aroclors 1232, 1221, and 1016 were not detected in the sediment. This combination of Aroclors and their prominence in the samples is significantly different from the 1997 samples where 1232 was previously the most abundant Aroclor in samples and 1242 and 1260 were not observed. Provided in Figure 10 are the results of sediment analyses for the past four years of data collection. Figure 10 generally illustrates the deposition of PCBs in the Twelvemile Creek/Lake Hartwell system. The highest concentrations of PCBs are found in the lower end of the Twelvemile Creek Arm (SD-009 through SD-013). These data indicate significant decreases in PCBs in sediment over 1997

The TOC values for all sediment samples range from less than 1,300 at SD-005 to 35,000 ppm at SD-012. The TOC values are significantly less than the 1977 data and may explain differences in the PCB concentrations detected. Stream sediment samples were collected during relatively high stream flow. This may account for some lower TOC and PCB values.

3.3 CORBICULA

The analytical results of the seven *Corbicula* samples are summarized in Table 8 and illustrated in Figure 11. Analytical Data Sheets are provided in Appendix C. Of the seven specific Aroclor compounds reported by the analytical method, only one was detected in the *Corbicula* tissue. The Aroclor detected was 1248, which was the only Aroclor detected in each of the seven samples. The *Corbicula* results are also graphically presented in Figure 12 for the four sampling events 1995 to 1998. At present these data do not indicate definitive trends in the results. The highest concentrations of PCBs were detected in *Corbicula* tissue downstream of the Sangamo Weston facility in Twelvemile Creek at Highway 137 Bridge (C-5) at 2.88 ppm in the duplicate sample. The concentration in *Corbicula* downstream of the Sangamo Weston outfall was significantly less than in 1997 (7.59 ppm) with a four-year low of 2.14 ppm detected for this location. The PCB concentration in *Corbicula* tissue at the Twelvemile Creek background

location (C-2) was 0 175 ppm, while the concentration in the Town Creek background station was similar at 0 136 ppm. All PCB concentrations in *Corbicula* were significantly less than the four previous surveys.

4.0 DISCUSSION

4.1 FISH

The 1998 OU2 Fish Study results indicate that the PCB concentrations were generally lower with increased distance from the Twelvemile Arm of Lake Hartwell in largemouth bass, channel catfish and forage fish and decreased with time. The concentrations detected in hybrid bass were also lower in the three stations, which were the greatest distance from Twelvemile Creek (SV-535, SV-642, and SV-641) as well as at SV-107. Forage fish also appear to have localized levels of contamination similar to largemouth bass and channel catfish with the highest PCB concentrations in forage fish detected in the Twelvemile Creek Arm and significantly lower levels at stations downstream of Twelvemile Creek The 1998 fish results indicate a reduction in the PCB concentrations in largemouth bass and channel catfish at most stations from the period 1990 through 1998. Stations SV-532, SV-535, SV-641 and SV-642 indicated mean PCB concentrations in largemouth bass and catfish less than 2.0 ppm for this period. Station SV-106 was also less than 2.0 ppm for channel catfish. The PCB concentration in catfish at SV-106 was above 2.0 ppm during the 1998 survey, however, the PCB concentration was less than 20 ppm at SV-107 (Twelvemile Creek) during 1998. The PCB concentrations in hybrid bass exceeded the 2.0 ppm FDA limit at all stations in 1998 with the highest concentration detected at SV-532. The PCB concentrations in hybrid bass are lower at the three stations farthest from Twelvemile Creek as well as SV-107. The gizzard shad are beginning to indicate a pattern of both spatial and temporal decreases in PCB concentrations. The 1998 data indicate significant decreases in PCB concentrations in gizzard shad. The 1998 bluegill values were lower at all stations than the 1997 values but were generally higher than the 1996 and 1995 values. PCBs in threadfin shad indicate no definitive trends.

4.2 SEDIMENT

The results of the sediment analyses indicate that PCB concentrations in shallow stream sediments were highest in the area of the lower

Twelvemile Creek Arm of Lake Hartwell A comparison of the 1998 results to the historic values discussed in the 1993 RI Report, show the concentrations of PCBs to have decreased significantly in the upper Twelvemile Creek area, particularly Town Creek, indicating a flushing of this area. Concentrations detected in other portions of Twelvemile Creek and in tributaries below Town Creek were significantly lower than the historic values. In the lower Twelvemile Creek area, PCB concentrations generally range from less than 0.145 to 2.83 ppm. Those values were similar or lower than historic findings and in some cases significantly lower. The Upper Twelvemile Creek Arm includes approximately the upper four miles of impounded waters of Lake Hartwell. This is one of the most heavily sampled areas of the lake to date. The concentration of the five surface sediment composite samples of this area ranged from less than 0 141 ppm to 2 41 ppm. These values were much less than those reported by the State and EPA from 1976 through 1985, which ranged from 1.7 ppm to 48.0 ppm, and those reported by ERM in 1995, which ranged from 0.943 ppm to 8 46 ppm. Germann (1988) indicated PCB surface sediment concentrations ranging from 5 to 50 ppm for this area. The 1998 data indicate that the PCB concentrations in surficial sediments of the Upper Twelvemile Creek Arm were reduced from historic levels and are approximately half of the 1997 values.

The Middle Twelvemile Creek Arm extends from Maw Bridge to the Highway 133 bridge. Two samples were collected in the area during the 1998 survey with values of 2.53 and 2.83 ppm PCBs detected. Historic PCB concentrations have ranged from 0.84 to 64.3 ppm (1986 through 1988). The Phase I and II sampling of 1991 indicated concentrations ranging from 0.16 to 6.48 ppm in 45 samples. A review of the 1991 data indicates that the 1998 concentrations in this area are less than historic high values of 1995 values of 10.7 and 16.0 ppm as well as lower than the 1997 values of 4.12 and 6.51 ppm.

The lower Twelvemile Creek Arm area (Highway 133 to Highway 123) typically has the highest concentrations of PCBs. The one sample (SD-013, 2.25 ppm) was significantly lower than the concentrations detected in 1995, 1996, and 1997 (8 26 to 23.3 ppm). Historic concentrations at this location have ranged from 0.39 to 55.62 ppm with maximums of 12 03 ppm and 55 62 ppm detected in 1977 in 1985, respectively. The Phase I and II data of 1991 indicate concentrations ranging from 0.16 to 11 51 ppm, indicating a similar phenomenon of downstream migration and settling, as observed in the Middle Twelvemile Creek Arm.

The Seneca River Arm/Upper Hartwell Lake area (Highway 123 to Highway 37) was sampled in 1998 at two locations, one near the upper end (SD-014) and one at the lower end of this reach (SD-015).

Concentrations of 1 31 ppm and 1.03 ppm, respectively, were recorded at these locations. Historic sampling indicates that concentrations have ranged from 0 01 to 14.26 ppm, while Phase I and II sampling indicate ranges of concentration from 0.04 to 5 26 ppm. The PCB concentrations in this area of the lake appear to have steadily decreased since the beginning of the sampling program. The concentration detected at SD-014 in 1998 is similar to the 1997 value, while the 1998 SD-015 value is approximately one half of the 1997 value.

Sediment sampling in the lower section of Lake Hartwell in 1998 included five stations, which correspond to the fish sampling locations SD-106, SD-532, SD-535, SD-641, and SD-642. The PCB concentrations ranged from 0.881 ppm at SD-532 to less than 0.215 at SD-641 in the Tugaloo River Arm. A concentration of less than 0.247 ppm was detected near the dam at SD-642. The historic sampling data do not appear to reflect many locations which correspond to the above locations. Specific locations which have been sampled in the past include SD-106, which was sampled by SCDHEC in 1976 The range of concentrations determined in 1976 at SD-106 was 0.01 to 6.59 ppm, with concentrations ranging from 0.15 to 1.74 ppm during the 1994 Phase I study. The concentration detected during 1998 appears to fall in the lower end of this range (0.574 ppm)

Similar to Phase I sampling, (1991), PCBs were reported below levels of detection in the Tugaloo River Arm in 1998 (less than 0.215 ppm). The concentration detected at SD-535 (confluence of the Seneca and Tugaloo River Arms) was higher in the 1995 study (1.83 ppm) than in 1991 or 1996 where maximum values of 0.52 ppm and less than 0.470 ppm were detected, respectively. During the 1998 study a value of less than 0.274 ppm was detected which appears to be significantly lower than the 1997 value. The concentration of PCBs at Hartwell Dam (SD-642) has been detected as high as 15 ppm in the mid 1980s. During 1991, 1995, 1996, 1997, and 1998, however, PCB concentrations have been below 1 ppm.

4.3 CORBICULA

Results of the *Corbicula* study appear to begin to indicate a pattern of reduction in PCB concentrations from 1995 through 1998. One clear pattern is the detection of PCB at concentrations above background at four locations (C-1, C-3, C-5, and C-6) and at low to insignificant concentrations at background locations (C-0, C-2, and C-4). While the concentration at most locations was greater in 1996 than in 1995. The 1997 values are generally less than the maximum values of 1995 or 1996. The 1998 values are significantly lower than previous values. Overall, the PCB concentration tends to decrease in a downstream direction from the

Sangamo Weston Outfall. Background concentrations indicate that PCBs are slightly accumulated upstream from Sangamo Weston in both Twelvemile and Town Creeks

5.0 DATA QUALITY

Samples of fish and Corbicula tissue and sediment were analyzed for PCBs from the Sangamo Weston OU2 study area. The analytical method used was EPA SW-846, Method 8087. Fish and sediment samples were collected from April 13 to April 24, 1998, while Corbicula were collected May 21, 1998. Analyses of fish and sediment were performed by Northeast Analytical, Inc. (NEA) from April 30 to May 18, 1998, while Corbicula were analyzed on June 24, 1998 by NEA. Quality assurance samples were collected in the field and submitted for analysis. Quality assurance samples included field prepared duplicates for sediment at a rate of one per ten samples collected. Equipment rinsate, and field blanks were collected for both fish and sediment samples at a rate of one per 20 samples collected. Duplicates of fish tissue and Corbicula were split in the laboratory. All samples were delivered overnight to the laboratory under chain of custody by Federal Express. All chain of custody records were found to be complete. Sample preservation requirements for PCB analysis (temperature less than or equal to 4°C) were maintained. During this sampling event, fish tissue, sediment, and water samples were kept on ice prior to transport.

EPA and SCDHEC require that PCB samples are extracted within 365 days following collection and analyzed within 40 days following extraction. No samples exceeded the allowable holding time

The seven Aroclors specified under Method 8082 were reported for each sample analyzed. The practical quantitation limit (PQL) was specified for each Aroclor and sample combination. The PQLs ranged from 0.112 to 1.12 ppm for fish tissue, 0.138 to 0.479 ppm for sediments, and 0.114 and 0.249 for *Corbicula*. The PQLs specified above are within the same range as the estimated quantitation limit (EQL) for high concentration soils and sludges referenced in Method 8082.

QA/QC analytical results are included in Appendix D. PCBs were not present in any of the equipment rinsates or trip blanks at a PQL of 0 050 to 0.056 ppb. This range of PQL is less than the Method 8082 EQL of 0 065 ppb. This indicates the presence of PCBs was not due to equipment contamination.

Two sediment, one *Corbicula*, and eight fish tissue samples were submitted in duplicate for analysis. The results indicated very good precision for the combined sample collection and analysis procedure. There is no guideline for an acceptable level of precision for the combined sample collection and analysis of duplicate samples for PCBs. The relative precision, however, of most duplicate samples tested was less than 31% and generally less than 10%, which indicates good precision. One exception was sediment sample SD-005 where the sample value was 0.961 ppm and the duplicate value was 0.255 ppm. The difference in these values is partially explained by the TOC value, which was much higher in the SD-005 sample than the SD-005 duplicate. It is speculated that a higher concentration of organic material was utilized in the sample, which had a higher PCB content.

Laboratory quality control procedures included the addition of surrogate standards prior to analysis, the analysis of a duplicate and matrix spike on selected samples, and the analysis of method blanks. In accordance with Method 8082 procedures, two surrogate standards (tetrachloromethaxylene and dichlorobiphenol), were incorporated into all samples analyzed. The percent recovery of these surrogates were the limits set by the method. The recovery limits set by method 8082 range from 60% to 130%

Laboratory duplicates (duplicates of the samples) were prepared and analyzed on six samples. The percent differences for total PCBs ranged between 5.81% and 36.8%. The agreement between these values is very good and is indicative of good precision in the data with the exception of one elevated value, which the laboratory explained as corresponding peaks in the sample

Laboratory matrix spike samples and duplicates of the matrix spikes (MSD) were prepared and analyzed on the same ten samples. The percent recoveries for total PCBs ranged between 93.7% and 132%. These recoveries are most favorable as compared to the recoveries referenced in Method 8082 and are indicative of good accuracy in the data. The matrix spike duplicate sample recoveries were elevated in some samples due to corresponding peaks in the sample.

Laboratory control spikes were prepared and analyzed on ten samples. The percent recoveries for the Laboratory control spikes ranged from 86.5% to 122%. The agreement between the amount spiked and amount recovered was within acceptable recovery rates. The recovery rates are indicative of good precision in the data.

A total of 12 laboratory method blanks were analyzed PCBs were not detected in any method blank. The maximum PQLs for the method

blanks were 0 05 $\mu g/L$ (ppb) for water samples and ranged from 0.112 $\mu g/g$ (ppm) to 0.118 $\mu g/g$ for solid samples.

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		(μg/g)
SV-107-01	4/14/98	lmb	381	800	m	6 88
SV-107-02	4/14/98	lmb	351	600	f	10 8
SV-107-03	4/14/98	lmb	400	950	f	12 4 / 8 6d
SV-107-04	4/16/98	hb (sb)	480	1400	m	3 88
SV-107-05	4/16/98	hb (sb)	475	1450	m	1 89
SV-107-07	4/16/98	hb (wb)	420	1100	f	4.53
SV-107-08	4/14/98	СС	410	650	f	0 581
SV-107-09	4/14/98	СС	405	550	f	1 22
SV-107-10	4/14/98	СС	445	800	f	1 61 / 1 26d
SV-107-11	4/14/98	СС	415	600	f	1 46
SV-107-12	4/14/98	gs	300-350	300-400	u	3.09
SV-107-13	4/14/98	bg	135-205	400	u	4 08
SV-107-15	4/15/98	lmb	360	610	f	2 74
SV-107-16	4/15/98	lmb	320	460	f	3 39
SV-107-17	4/15/98	lmb	335	580	m	6 38
SV-107-18	4/16/98	lmb	410	840	f	5 37
SV-107-19	4/16/98	lmb	411	980	f	12 7
SV-107-20	4/16/98	lmb	404	900	m	10 9
SV-107-21	4/16/98	lmb	371	670	m	17 2
SV-107-22	4/16/98	hb	510	1920	m	3 91
SV-107-23	4/16/98	ts	100-150	150	u	3 83
SV-107-24	4/22/98	hb	480	1650	m	2 68
SV-107-25	4/22/98	hb	450	1550	f	1 12
SV-107-26	4/22/98	hb	470	1750	f	1 51
SV-107-27	4/22/98	hb	450	1550	f	1 67
SV-107-28	4/23/98	hb	490	1900	f	0 971
SV-107-29	4/23/98	hb	495	1950	f	2 46

Imb - Largemouth Bass

hb - Hybrid Bass

cc - Channel Catfish

ts - Threadfin Shad

gs - Gizzard Shad

bg - Bluegill

sb - Stripped Bass

wb - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		(μg/g)
SV-106-01	4/14/98	lmb	410	975	m	4 55
SV-106-02	4/14/98	lmb	390	850	f	5 27
SV-106-03	4/14/98	lmb	344	550	m	4 13
SV-106-04	4/14/98	lmb	350	600	m	4 12
SV-106-05	4/14/98	lmb	382	750	m	4 59
SV-106-06	4/14/98	lmb	462	1350	f	4 54
SV-106-07	4/14/98	lmb	320	500	f	2 25
SV-106-08	4/14/98	lmb	428	950	f	3 68
SV-106-09	4/14/98	lmb	435	1100	f	3 82 / 4 63d
SV-106-10	4/14/98	lmb	384	750	f	4 58
SV-106-11	4/14/98	СС	430	800	f	3 01
SV-106-12	4/14/98	СС	420	650	m	4 3
SV-106-13	4/14/98	hb	455	1600	f	0 658
SV-106-14	4/15/98	hb	434	1610	f	1 19
SV-106-16	4/16/98	СС	380	520	f	1 34
SV-106-17	4/16/98	СС	387	590	f	1 47
SV-106-18	4/16/98	hb	464	1880	f	10 3
SV-106-19	4/16/98	hb	449	1260	f	1 1
SV-106-20	4/22/98	hb	451	1200	m	3 24
SV-106-21	4/22/98	hb	470	1325	m	2 54
SV-106-22	4/22/98	hb	440	1250	f	7 06
SV-106-23	4/22/98	hb	425	1325	f	3 09
SV-106-24	4/23/98	hb	475	4750	f	1 1
SV-106-25	4/23/98	hb	494	4825	f	1 5

Imb - Largemouth Bass

hb - Hybrid Bass

cc - Channel Cattish

ts - Threadfin Shad

gs - Gizzard Shad

bg - Bluegill

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d- Duplicate

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		$(\mu g/g)$
SV-532-01	4/15/98	lmb	344	560	m	1 03
SV-532-02	4/15/98	lmb	410	1180	m	2 4
SV-532-03	4/15/98	lmb	357	730	m	1 64
SV-532-04	4/15/98	lmb	391	810	m	1 9
SV-532-05	4/15/98	lmb	367	740	m	1 24
SV-532-06	4/15/98	lmb	357	700	m	3 19
SV-532-07	4/15/98	lmb	399	1030	m	4.02
SV-532-08	4/15/98	lmb	361	650	f	1 27
SV-532-09	4/22/98	lmb	350	550	f	0 806
SV-532-10	4/22/98	lmb	403	850	f	1 14
SV-532-11	4/15/98	hb	521	2020	f	3 77 / 3 55d
SV-532-12	4/15/98	hb	469	1610	f	1 76
SV-532-13	4/15/98	hb	460	1400	f	3 87
SV-532-14	4/15/98	hb	469	1410	f	3 75
SV-532-15	4/15/98	hb	524	2010	f	2 16
SV-532-16	4/15/98	hb (sb)	475	1320	m	3 54
SV-532-17	4/15/98	hb	473	1610	f	3 27
SV-532-18	4/15/98	gs	274-327	290-410	u	1 24
SV-532-19	4/15/98	bg	110-220	580	u	0 728
SV-532-20	4/15/98	ts	45-90	neg	u	2 09
SV-532-21	4/15/98	СС	374	520	m	0 697
SV-532-22	4/22/98	СС	420	850	m	0 66
SV-532-23	4/22/98	СС	555	1800	m	1 05
SV-532-24	4/16/98	СС	391	560	f	0 681
SV-532-25	4/22/98	hb	640	2800	f	8 24
SV-532-26	4/22/98	hb (sb)	690	4000	m	4 69
SV-532-27	4/23/98	hb	445	1550	f	1 95

Imb - Largemouth Bass

hb - Hybrid Bass

cc - Channel Cattish

ts - Threadfin Shad

gs - Gizzard Shad

bg - Bluegili

sb - Stripped Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		(μg/g)
SV-535-01	4/15/98	lmb	449	1260	f	1 33 / 1 24d
SV-535-02	4/15/98	lmb	356	530	m	0 349
SV-535-03	4/15/98	lmb	390	790	m	0 842
SV-535-04	4/15/98	lmb	409	990	m	1.65
SV-535-05	4/15/98	lmb	381	970	m	1 04
SV-535-06	4/15/98	lmb	370	770	m	0 849
SV-535-07	4/15/98	lmb	354	600	m	0 478
SV-535-08	4/15/98	lmb	340	520	m	0 251
SV-535-09	4/15/98	lmb	320	490	m	0 221
SV-535-10	4/15/98	lmb	329	480	m	0 561
SV-535-11	4/15/98	hb	469	1500	f	2 1
SV-535-12	4/15/98	hb	484	1850	f	1 37
SV-535-13	4/15/98	hb (sb)	468	1420	m	1 26
SV-535-14	4/15/98	hb	465	1390	m	4 67
SV-535-16	4/15/98	CC	459	860	f	0 788
SV-535-17	4/15/98	СС	438	690	f	0 523
SV-535-18	4/16/98	hb	438	1780	f	1 96
SV-535-19	4/16/98	hb	462	1560	f	2 14
SV-535-20	4/16/98	hb (sb)	476	1390	f	5 29
SV-535-21	4/16/98	hb	478	1580	m	4 66
SV-535-22	4/16/98	hb	456	1580	f	2 38
SV-535-23	4/16/98	СС	506	1340	f	1 04 / 0 877d
SV-535-24	4/16/98	СС	402	520	f	0

lmb - Largemouth Bass

hb - Hybrid Bass

cc - Channel Catfish

ts - Threadfin Shad

gs - Gizzard Shad

sb - Striped Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		$(\mu g/g)$
SV-641-01	4/16/98	lmb	494	1500	f	0 4
SV-641-02	4/16/98	lmb	403	810	m	0 562
SV-641-03	4/16/98	lmb	384	670	f	0
SV-641-04	4/16/98	lmb	369	660	f	0
SV-641-05	4/16/98	lmb	394	810	m	0 304 / 0 281d
SV-641-06	4/16/98	lmb	336	530	f	0
SV-641-07	4/16/98	lmb	381	670	f	0
SV-641-08	4/16/98	lmb	356	580	m	0
SV-641-09	4/16/98	lmb	310	420	f	0
SV-641-10	4/16/98	lmb	320	430	f	0
SV-641-11	4/16/98	СС	397	560	f	0
SV-641-12	4/16/98	bg	95-163	475	u	0
SV-641-13	4/16/98	ts	65-134	200	u	0 148
SV-641-14	4/17/98	hb	540	2100	f	1
SV-641-15	4/17/98	hb	490	1900	f	1 75
SV-641-16	4/17/98	hb	530	1950	f	2 9
SV-641-17	4/17/98	hb (sb)	490	1500	m	1 27
SV-641-18	4/17/98	hb	460	1450	m	2 86
SV-641-19	4/17/98	hb	560	2300	f	2.7
SV-641-20	4/17/98	hb	530	2200	f	8 37
SV-641-21	4/17/98	hb	470	1450	m	1.18
SV-641-22	4/17/98	СС	420	650	f	0
SV-641-23	4/17/98	СС	410	600	m	0
SV-641-24	4/17/98	сс	440	700	m	0
SV-641-25	4/17/98	gs	240-290	150-300	u	0
SV-641-26	4/22/98	hb	442	1600	f	2 13
SV-641-27	4/22/98	hb	480	1575	m	4 79

lmb - Largemouth Bass

hb - Hybrid Bass

f - Female

m - Male

cc - Channel Catfish

ts - Threadfin Shad

gs - Gizzard Shad

bg - Bluegili sb - Stripped Bass

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 1 OU2 Fish Study - Field Data and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date	Species	Length	Weight	Sex	Total PCB
Number			(mm)	(grams)		$(\mu g/g)$
SV-642-01	4/15/98	lmb	448	1330	f	0 62
SV-642-02	4/15/98	lmb	404	1030	f	0 464
SV-642-03	4/15/98	lmb	405	980	f	0 506
SV-642-04	4/15/98	lmb	418	1100	f	0 812
SV-642-05	4/15/98	lmb	429	1160	f	0 128
SV-642-06	4/15/98	lmb	369	690	f	0
SV-642-07	4/15/98	lmb	423	1050	m	0 118
SV-642-08	4/15/98	lmb	364	630	m	0 153
SV-642-09	4/15/98	lmb	305	440	m	0
SV-642-10	4/17/98	lmb	480	1250	m	0 144
SV-642-11	4/17/98	hb	480	1700	f	1 17 / 1 24
SV-642-12	4/17/98	hb (sb)	460	1300	m	0 91
SV-642-14	4/17/98	hb	470	1600	m	1 66
SV-642-17	4/17/98	hb	470	1350	m	2 96
SV-642-19	4/17/98	СС	440	800	f	0 12
SV-642-20	4/17/98	СС	500	1150	f	0 23 1
SV-642-21	4/17/98	СС	410	550	m	0 556
SV-642-22	4/17/98	СС	390	550	f	0 16
SV-642-24	4/22/98	hb	460	1325	m	1 8
SV-642-25	4/22/98	hb	460	1450	f	1 33
SV-642-26	4/22/98	hb	460	1650	f	2 4
SV-642-27	4/22/98	hb	465	1525	f	4 71
SV-642-28	4/22/98	hb	462	1400	f	1 99
SV-642-29	4/22/98	hb	468	1450	f	1 43

lmb - Largemouth Bass

hb - Hybrid Bass

cc - Channel Cattish

ts - Threadfin Shad

gs - Gizzard Shad

f - Female

m - Male

u - Unknown

d - Duplicate

t - Combined Total

sb- Striped Bass

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Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - μg/g
SV-107-01	4/14/98	Q.	QN	QN	QN ON	ND	6 33	0.55	88 9
SV-107-02	4/14/98	Ð	ND	QN	ND	ND	9 61	1 18	10 8
SV-107-03	4/14/98	Q.	QN	ND	ND	ND	10 5	1 95	12.4
SV-107-03 Dup	4/14/98	Æ	ON	ON	ND	ND	7 00	1 60	8 6
SV-107-04	4/14/98	ON ON	ON	ND	ND	QN ON	3 53	0 348	3 88
SV-107-05	4/14/98	QN QN	ON	ND	ND	QN	1 40	0 488	1 89
SV-107-07	4/14/98	QN QN	ON	ND	QN	ND	3 73	0 798	4 53
SV-107-08	4/14/98	£	QN	ON	ND	ND	0 581	ON.	0 581
SV-107-09	4/14/98	£	QN	ND	QN	QN	0 994	0 230	1 22
SV-107-10	4/14/98	Q.	ND	ND	MD	ND	1 40	0 207	1 61
SV-107-10 Dup	4/14/98	£	ND	ND	QN	ND	1 06	0 203	1 26
SV-107-11	4/14/98	£	QN QN	QN	ND	ND	1 24	0 224	1 46
SV-107-12	4/14/98	Ð	QN	ON	ND	QN	2 59	0 498	3 09
SV-107-13	4/14/98	QN QN	ND	ND	ND	QN QN	3 42	0 662	4.08
SV-107-15	4/12/98	ND	ND	QN	QN	Q.	2 31	0 434	2.74
SV-107-16	4/15/98	QN	ND	ND	ND	ND	2 85	0 539	3 39
SV-107-17	4/15/98	QN	ND	ON	ND	ON	5 32	1 06	6 38
SV-107-18	4/16/98	E E	ON	ND	ND	ND	4 39	0 983	5 37
SV-107-19	4/16/98	S S	ND	ND	ND	ND	10 8	1 90	12.7
SV-107-20	4/16/98	QN QN	ND	ND	ND	ND	9.5	1 42	10 9
SV-107-21	4/16/98	SN SN	ON	ND	ND	ND	149	2 2 7	17.2
SV-107-22	4/16/98	ON ON	ND	ND	QN	Q	2 85	1 06	3 91
SV-107-23	4/16/98	£	ON	ND	ON	ND	3 37	0 463	3 83
SV-107-24	4/22/98	Q	ON	ND	ND	QN QN	2 02	0 663	2 68
SV-107-25	4/22/98	£	ON	ND	ND	ND	0 823	0 292	1 12
SV-107-26	4/22/98	Ð	ON	ND	QN	N ON	1 03	0 485	151
SV-107-27	4/22/98	Ð	ND	ND	ND	N ON	131	0 362	167
SV-107-28	4/23/98	ND	ND	QN	Q.	QN QN	0 733	0 238	0 971
SV-107-29	4/23/98	QN	QN	R	QN	S	1 89	0 567	2 46

Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Number Sampled 1016 1221 1242 1248 1254 1260 PCB-CB-CB-CB-CB-CB-CB-CB-CB-CB-CB-CB-CB-C	Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
4/14/98 ND ND ND ND ND O784 4/14/98 ND ND ND ND 452 0754 4/14/98 ND ND ND ND 350 0629 4/14/98 ND ND ND ND 336 0756 4/14/98 ND ND ND ND ND 315 139 4/14/98 ND ND ND ND ND ND 315 130 4/14/98 ND ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND ND 113 0521		Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g
4/14/98 ND ND ND ND A52 0754 4/14/98 ND ND ND ND 350 0629 4/14/98 ND ND ND ND 336 0629 4/14/98 ND ND ND ND 336 0639 4/14/98 ND ND ND ND ND 139 0639 4/14/98 ND ND ND ND ND 139 0639 4/14/98 ND ND ND ND ND 136 0702 4/14/98 ND ND ND ND ND 136 0752 4/14/98 ND ND ND ND ND 141 0646 4/14/98 ND ND ND ND ND 141 141 0646 4/14/98 ND ND ND ND ND ND 141 0752 4/14/		4/14/98	Ð	QN ON	ON	ON	ND	3 77	0 780	4 55
4/14/98 ND ND ND ND 350 0629 4/14/98 ND ND ND ND 336 0756 4/14/98 ND ND ND ND 336 0639 4/14/98 ND ND ND ND 315 139 4/14/98 ND ND ND ND ND 301 4/14/98 ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND 316 0648 4/14/98 ND ND ND	ŀ	4/14/98	Ð	£	ON.	QN	ND	4 52	0 754	5 27
4/14/98 ND ND ND ND ND ND ND 336 0 536 4/14/98 ND ND ND ND ND 315 139 0639 4/14/98 ND ND ND ND ND 195 0 639 4/14/98 ND ND ND ND ND 195 0 639 4/14/98 ND ND ND ND ND 195 0 639 4/14/98 ND ND ND ND ND 193 0 646 4/14/98 ND ND ND ND ND 175 0 643 4/14/98 ND ND ND ND ND ND 175 4/14/98 ND ND ND ND ND ND 164 0 153 4/14/98 ND ND ND ND ND ND 104 113 4/14/98 ND ND<	ļ	4/14/98	QN ON	ON	ON	QN	ND	3 50	0 629	4 13
4/14/98 ND ND ND ND 395 0639 4/14/98 ND ND ND ND 135 139 4/14/98 ND ND ND ND ND 195 0 301 4/14/98 ND ND ND ND ND 195 0 301 4/14/98 ND ND ND ND ND 195 0 301 4/14/98 ND ND ND ND ND 317 0 646 4/14/98 ND ND ND ND ND 317 141 4/14/98 ND ND ND ND ND ND 152 4/14/98 </td <td>ļ</td> <td>4/14/98</td> <td>QN ON</td> <td>ON ON</td> <td>ON</td> <td>QN</td> <td>MD</td> <td>3 36</td> <td>0 756</td> <td>4 12</td>	ļ	4/14/98	QN ON	ON ON	ON	QN	MD	3 36	0 756	4 12
4/14/98 ND ND ND ND ND 139 4/14/98 ND ND ND ND 195 0301 4/14/98 ND ND ND ND ND 0702 4/14/98 ND ND ND ND ND 0762 4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND 141 141 4/14/98 ND ND ND ND 141 141 4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND ND 142 4/16/98 ND ND ND ND ND 142 4/16/98 ND		4/14/98	Q.	QN	ON	QN	ND	3 95	0 639	4 59
4/14/98 ND ND ND ND 195 0301 4/14/98 ND ND ND ND 198 0702 4/14/98 ND ND ND ND ND 0646 4/14/98 ND ND ND ND 317 0646 4/14/98 ND ND ND ND 366 0643 4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND 164 0638 4/14/98 ND ND ND ND 104 013 4/14/98 ND ND ND ND 104 013 4/14/98 ND ND ND ND 104 013 4/16/98 ND ND ND ND ND 113 021 4/16/98 ND ND ND ND ND ND 0658	j	4/14/98	S	Ð	QN	QN	ND	3 15	1 39	4 54
4/14/98 ND ND ND ND 298 0 702 4/14/98 ND ND ND ND 3 17 0 646 4/14/98 ND ND ND ND ND 3 17 0 645 4/14/98 ND ND ND ND ND 3 66 0 643 4/14/98 ND ND ND ND ND 3 66 0 643 4/14/98 ND ND ND ND ND 1 66 0 643 4/14/98 ND ND ND ND ND 1 66 0 643 4/16/98 ND ND ND ND ND 1 13 0 211 4/16/98 ND ND ND ND ND 1 13 0 242 4/16/98 ND ND ND ND ND 0 824 0 651 4/16/98 ND ND ND ND ND 0 824 0 651	ļ	4/14/98	Ð	Ð	QN	QN	QN	1 95	0 301	2 25
4/14/98 NID NID NID NID NID NID 0646 4/14/98 NID NID NID NID NID 141 4/14/98 NID NID NID NID NID 113 0643 4/16/98 NID NID NID NID NID NID NID 113 0611 4/16/98 NID NID NID NID NID NID NID 113 0211 4/16/98 NID NID NID NID NID NID NID NID 122 0242 4/16/98 NID NID NID NID NID NID NID 0605 4/16/98 <t< td=""><td>ļ</td><td>4/14/98</td><td>£</td><td>Ð</td><td>Q.</td><td>Q.</td><td>Q.</td><td>2 98</td><td>0 702</td><td>3 68</td></t<>	ļ	4/14/98	£	Ð	Q.	Q.	Q.	2 98	0 702	3 68
4/14/98 ND ND ND ND ND 141 4/14/98 ND ND ND ND 141 4/14/98 ND ND ND ND 141 4/14/98 ND ND ND ND 1643 4/14/98 ND ND ND 1643 ND 4/14/98 ND ND ND ND 1643 ND 4/16/98 ND ND ND ND ND 113 0.511 4/16/98 ND ND ND ND ND ND 1.52 0.251 4/16/98 ND ND ND ND ND ND 1.22 0.251 4/16/98 ND ND ND ND ND ND 0.251 4/16/98 ND ND ND ND ND 0.854 0.242 4/16/98 ND ND ND ND ND ND		4/14/98	Q.	Q	Q	ND	QN	3 17	0 646	3 82
4/14/98 ND ND ND ND 3 17 141 4/14/98 ND ND ND ND 140 140 141 4/14/98 ND ND ND ND ND 104 0643 4/14/98 ND ND ND ND ND 104 0643 4/16/98 ND ND ND ND ND 106 0643 4/16/98 ND ND ND ND ND 113 0.153 4/16/98 ND ND ND ND ND ND 1.22 0.251 4/16/98 ND ND ND ND ND ND 8.78 1.56 4/16/98 ND ND ND ND ND ND 0.854 0.242 4/16/98 ND ND ND ND ND ND 0.63 0.611 4/16/98 ND ND ND <td< td=""><td>۾</td><td>4/14/98</td><td>Ð</td><td>QZ.</td><td>QN ON</td><td>QN</td><td>ND</td><td>3 88</td><td>0 752</td><td>4 63</td></td<>	۾	4/14/98	Ð	QZ.	QN ON	QN	ND	3 88	0 752	4 63
ND ND ND ND ND A56 0451 ND ND ND ND 366 0643 ND ND ND ND 0658 ND ND ND ND ND 104 0153 ND ND ND ND 113 0211 ND ND ND ND 122 0251 ND ND ND ND 122 0251 ND ND ND ND 878 156 ND ND ND ND 878 156 ND ND ND ND 0854 0242 ND ND ND ND ND 0605 ND ND ND ND 0605 ND ND ND ND 0611 0950 ND ND ND ND 0631 0310 ND ND <		4/14/98	Q.	QZ	Q.	Ð.	QN ON	3 17	141	4 58
ND ND ND ND ND 0643 ND ND ND ND 0658 ND ND ND ND ND 0153 ND ND ND ND ND 113 0211 ND ND ND ND 122 0251 ND ND ND ND 878 156 ND ND ND ND 878 156 ND ND ND ND 874 0242 ND ND ND ND 263 0611 ND ND ND ND 193 0605 ND ND ND ND 611 0950 ND ND ND ND 0605 ND ND ND ND 0437 ND ND ND ND 0853 0245 ND ND ND 119	ļ	4/14/98	Q.	Ð	QN	QV	QN	2 56	0 451	3 01
ND ND ND ND ND 104 0153 ND ND ND ND 1 04 0 153 ND ND ND ND 1 13 0 211 ND ND ND ND 1 22 0 251 ND ND ND ND 1 22 0 251 ND ND ND ND 8 78 1 56 ND ND ND ND 8 78 1 56 ND ND ND ND 0 854 0 242 ND ND ND ND ND 1 93 0 601 ND ND ND ND ND 0 853 0 605 ND ND ND ND ND 0 853 0 245 ND ND ND ND ND 0 8310 0 310	}	4/14/98	£	QN	ND	QN	QN	3 66	0 643	4 3
ND ND ND ND ND 104 0153 ND ND ND ND 113 0211 ND ND ND ND 122 0251 ND ND ND ND 156 0251 ND ND ND ND 878 156 ND ND ND ND 0854 0242 ND ND ND ND 193 0601 ND ND ND ND 193 0605 ND ND ND ND 611 0950 ND ND ND ND 083 0245 ND ND ND ND 083 0245 ND ND ND ND 0910	ļ	4/14/98	QN QN	ND	ND	ND	ND	0 658	ND	0 658
ND ND ND ND ND 113 0211 ND ND ND ND 122 0251 ND ND ND ND 132 0251 ND ND ND ND 156 0242 ND ND ND ND 063 0611 ND ND ND ND 193 0605 ND ND ND ND 611 0950 ND ND ND ND 265 0437 ND ND ND ND 0853 0245 ND ND ND ND ND 0310		4/15/98	Ð.	QN	ND	ND	ND	1 04	0 153	1 19
ND ND ND ND ND ND ND 122 0251 1 ND ND ND ND ND 156 1		4/16/98	Q.	ND	ON	ND	ND	1.13	0 211	1 34
ND ND ND ND ND 8 78 156 ND ND ND ND 0854 0 242 ND ND ND ND 0611 ND ND ND ND 1 93 0 601 ND ND ND ND 6 11 0 950 ND ND ND ND 2 65 0 437 ND ND ND ND 0 853 0 245 ND ND ND ND 1 19 0 310		4/16/98	ND	QN	ND	ND	ND	I 22	0 251	147
ND ND ND ND ND 0 854 0 242 ND ND ND ND 2 63 0 611 ND ND ND ND 1 93 0 605 ND ND ND ND 6 11 0 950 ND ND ND 2 65 0 437 ND ND ND 0 853 0 245 ND ND ND ND 0 310		4/16/98	QN	QN	ON	QN	QN	8 78	1 56	10.3
ND ND ND ND ND 0611 ND ND ND ND 193 0605 ND ND ND ND 611 0950 ND ND ND ND 265 0437 ND ND ND ND 0853 0245 ND ND ND ND 0310		4/16/98	S	ON	QN	QN	ND	0.854	0 242	11
ND ND ND ND ND 193 0605 ND ND ND ND 611 0950 ND ND ND ND 611 0950 ND ND ND ND 0437 ND ND ND ND 0853 0245 ND ND ND ND 0310		4/22/98	QN	ND	ON	ND	ND	2 63	0 611	3 24
ND ND ND ND 611 0950 ND ND ND ND 265 0437 ND ND ND ND 0853 0245 ND ND ND ND 0310	}	4/22/98	Q	ON	ON	ND	ND	1 93	0 605	2 54
ND ND ND ND 2 65 0 437 ND ND ND ND 0 853 0 245 ND ND ND ND 1 19 0 310	j	4/22/98	ON	ND	ND	ND	ND	6 11	0 950	7 06
ND ND ND ND 0 853 0 245 1 ND ND ND ND 1 19 0 310 1		4/22/98	QN	ND	ND	ND	ND	2 65	0 437	3 09
ND ND ND ND 119 0310 1		4/23/98	QN	ND	ND	ON	ND	0 853	0 245	11
		4/23/98	QN	ND	ND	ON	ND	1 19	0 3 1 0	1.5

Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g
SV-532-01	4/15/98	ON	QN	ND ON	ND	ND	0 916	0 114	1 03
SV-532-02	4/15/98	ON.	QN	QN	QN	ND	2 13	0 265	2.4
SV-532-03	4/15/98	ND ON	ND	ND	ND	ND	1 47	0 171	1 64
SV-532-04	4/15/98	ON	ND	ND	ND	ND	1 65	0 254	1 9
SV-532-05	4/12/98	MD	ON	ND	ND	ND	1 10	0 135	1 24
SV-532-06	4/15/98	ND	QN	QN	ND	ND	2 51	<i>LL</i> 0 0 1 1 1	3 19
SV-532-07	4/15/98	ND	ND	ND	ND	ND	3 14	9280	4 02
SV-532-08	4/12/98	QN	QN	QN	ND	ND	0 894	0 373	1 27
SV-532-09	4/22/98	QN.	QN	QN	QN	ND	0 612	0 194	908 0
SV-532-10	4/22/98	ND	ND	ND	ND	ND	922 0	0 364	1 14
SV-532-11	4/15/98	QN	QN	QN	QN	ND	3 01	0 756	3.77
SV-532-11 Dup	4/15/98	ON	ND	ON	ND	ND	2 86	0690	3 55
SV-532-12	4/15/98	QN	ON	ND	ND	ND	1 10	0 664	1 76
SV-532-13	4/15/98	ND ON	ND	QN	QN ON	ND	3 21	0 657	3 87
SV-532-14	4/15/98	QN	QN	QN	ND	ND	3 10	0 645	3.75
SV-532-15	4/15/98	ON	ND	ND	QN	ND	1 72	0 444	2 16
SV-532-16	4/15/98	ND	MD	QN	QN	ND	2.77	0 775	3 54
SV-532-17	4/15/98	ND	QN	ND	ND	ND	2.72	0.551	3 27
SV-532-18	4/15/98	ND	ND	ON	ND	ND	0 897	0 347	1 24
SV-532-19	4/15/98	QN	ND	QN	QN	ND	0 538	0 190	0 728
SV-532-20	4/15/98	ND	ND	ND ON	QN	ND	1 78	0 305	2 09
SV-532-21	4/15/98	QN	ND	ND	ND	ND	0 568	0 129	0 697
SV-532-22	4/22/98	QN	ND	ND	ND	ND	0 526	0 134	99 0
SV-532-23	4/22/98	ND	ND	ND	ND	ND	0.855	0 197	1 05
SV-532-24	4/16/98	ND	ND	QN	QN	Q	0 552	0 129	0 681
SV-532-25	4/22/98	ND	ND	ND	ND	Q.	999	1 58	8 24
SV-532-26	4/22/98	ND ND	QN	QN	Q.	Ð	3 58	111	4 69
SV-532-27	4/23/98	S	£	S	R	Q.	1 26	0 691	1 95

Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g
SV-535-01	4/15/98	ND	QN.	QN	QN	ND	0 987	0 340	1 33
SV-535-01 Dup	4/15/98	ND	ND	ND	ND	ND	0 927	0 317	1 24
SV-535-02	4/12/98	ND	ND	ND	ND	ND	0 223	0 126	0 349
SV-535-03	4/15/98	ND ON	ND	ND	ND	ND	0 656	0 186	0 842
SV-535-04	4/15/98	Ð	ND	ND	ND	ND	1 29	0 363	1 65
SV-535-05	4/15/98	ND ON	ND	ND	ND	ND	0 774	0 262	1 04
SV-535-06	4/15/98	ON.	ND	UD	ND	MD	0 618	0 231	0 849
SV-535-07	4/15/98	QN	ND	MD	ON	ON	0 348	0 130	0 478
SV-535-08	4/15/98	Ð	ND	ND	ON	ND ON	0 251	ND	0 251
SV-535-09	4/15/98	Ð	ND	ND	ND	ND	0 221	ND	0 221
SV-535-10	4/15/98	QN QN	ND	ND	ND	ND	0 380	0 181	0 561
SV-535-11	4/15/98	ES.	QN	MD	ON	ND	1 54	0 557	2.1
SV-535-12	4/15/98	Q	QN	QN	ND	ND	0 927	0 446	137
SV-535-13	4/15/98	QN	ND	ND	ND	ND	968 0	0 367	1 26
SV-535-14	4/15/98	ND	ND	ND	ND	ND	3 96	0 708	4 67
SV-535-16	4/15/98	QN	ND	ND	ND	ND	0 595	0 193	0 788
SV-535-17	4/15/98	ND	ND	QN	ND	ND	0 391	0 132	0 523
SV-535-18	4/16/98	ON.	ND	ND	ND	ND	1 47	0 486	1 96
SV-535-19	4/16/98	ON.	ND	ND	ON	QN	1 52	0 624	2 14
SV-535-20	4/16/98	ND	ND	QN	ND	ND	4 30	686 0	5 29
SV-535-21	4/16/98	QN QN	ND	QN	ON	ND	3 70	0 963	4 66
SV-535-22	4/16/98	ND QN	ND	ND	ND	ND	1 78	0 595	2 38
SV-535-23	4/16/98	ND ON	ND	ND	ND	ND	0 807	0 234	1 04
SV-535-23 Dup	4/16/98	ND	ND	ND	ON.	QN QN	0 677	0 200	0 877
SV-535-24	4/16/98	QN	QN	QN	S	S	QN	N N	0

w \s_hlum1\4517\1998\LH-OU2\T2ns6987/22/98

Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g
SV-641-01	4/16/98	OZ.	QN	QN	ND	ND	0 276	0 124	0
SV-641-02	4/16/98	QN	ND	ND	ND	ON	0 391	0 171	0 562
SV-641-03	4/16/98	ON ON	ND	ND	QN	ND	QN	ON.	0
SV-641-04	4/16/98	ON ON	QN	QN	ND	ND	ND	ND	0
SV-641-05	4/16/98	QN	ND	ND	ND	MD	0 183	0 121	0 304
SV-641-05 Dup	4/16/98	QN QN	ND	ND	ND	QN	0 163	0 118	0 281
SV-641-06	4/16/98	N N	ND	ND	ND	ND	QN	QN QN	0
SV-641-07	4/16/98	£	ON	ND	ND	ND	ON	ND	0
SV-641-08	4/16/98	ON ON	ON	ND	ND	ND	ND	ND	0
SV-641-09	4/16/98	ON	QN	QN	ON	ND	ND	ND	0
SV-641-10	4/16/98	R	ND	ND	ON	ND	ND	Q	0
SV-641-11	4/16/98	ON	QN	ND DN	ON	ND	QN QN	QV QV	0
SV-641-12	4/16/98	ND	MD	ND	ND	ND	ND	QN	0
SV-641-13	4/16/98	ND	ND	ND	QN QN	QN	0 148	Ð.	0 148
SV-641-14	4/17/98	Q	ND	MD	QN	QN	0 694	0 308	1 00
SV-641-15	4/11/98	QN QN	ND	ND	QN	QN	1 10	0 655	1.75
SV-641-16	4/17/98	ND	ND	ND ND	ND	ND ON	2.35	0 554	2 90
SV-641-17	4/17/98	S S	ND	ND	ON	ND	0 847	0 421	1 27
SV-641-18	4/17/98	QN	QN	ND	ON	ND	2 10	0 757	2 86
SV-641-19	4/17/98	N	ND	ND	QN	ND	2 19	0 513	2.7
SV-641-20	4/17/98	ND	QN	ND	QN	ON.	7 04	1 33	8 37
SV-641-21	4/17/98	Q	ND	ND	Q.	QN ON	1 18	QN QN	1 18
SV-641-22	4/17/98	ON	ND	ND	QN ON	ND	Q.	Ð	0
SV-641-23	4/17/98	Q	ND	QN ON	QN QN	QN ON	Ð	Ω.	0
SV-641-24	4/11/98	ON	ND	ND	QN	Q	Ð	Ð	0
SV-641-25	4/17/98	ON	ND	ND	ND	ND	ND QN	Ð	0
SV-641-26	4/22/98	Q.	Ð	Q	Q.	E E	1 39	0 739	2 13
SV-641-27	4/22/98	S S	2	2	2	2	3 80	686 0	4 79

Table 2 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1998 RMT, Inc., Stafford, Texas

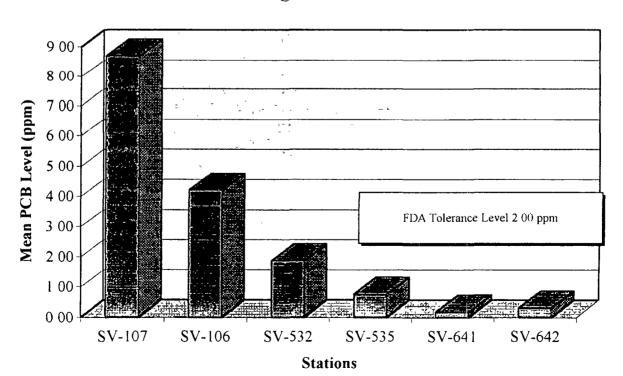
Sample	Date			Aro	Aroclor Identification- ug/g	ation- ug/g			Total
Number	Sampled	1016	1221	1232	1242	1248	1254	1260	PCB - µg/g
SV-642-01	4/15/98	QN	QN	ND	ND	ND	0 436	0 184	0 62
SV-642-02	4/12/98	ND	ND	ND	ND	ND	0 264	0 200	0 464
SV-642-03	4/15/98	ND	ND	ND	ND	ON	0 300	0 206	0 506
SV-642-04	4/15/98	ND	ND	ND	ND	ND	0 519	0 293	0 812
SV-642-05	4/12/98	ND DN	ND	ND	ND	ON ON	0 128	QN QN	0 128
SV-642-06	4/12/98	QN	ND	ND	QN	ON ON	Q	Q.	0
SV-642-07	4/15/98	S S	ND QN	ND	ND	ND	0 118	ND DV	0 118
SV-642-08	4/15/98	QN QN	ND	QN	ND	ON	0 153	QN	0 153
SV-642-09	4/15/98	Ð	QN	QN	ND	ND	ND	ND	0
SV-642-10	4/17/98	QN QN	QN	ON	ND	ND	0 144	ND	0 144
SV-642-11	4/17/98	QN QN	ON	ON	ND	ND	0 992	0 177	117
SV-642-11 Dup	4/17/98	Q.	QN	ON	ND	ND	9680	0 346	1 24
SV-642-12	4/17/98	EN	ND	ND	ND	ND	1990	0 243	0 91
SV-642-14	4/17/98	ND	ND	ND	ON	ND ON	1.15	0 512	1 66
SV-642-17	4/17/98	QN ON	QN	QN	ND	QN	2 39	0 570	2 96
SV-642-19	4/17/98	QN.	ND	ND	ND	ND	0 12	QN	0 12
SV-642-20	4/17/98	QN	ND	ND	ND	ND	0 231	ON	0 231
SV-642-21	4/17/98	ON	ND	QN	ND	ON	0 431	0 125	0 556
SV-642-22	4/17/98	ND	ND	QN	ND	ND	0 16	Ð	0 16
SV-642-24	4/22/98	QN	ND	ND	ND	ON.	1 38	0 417	1 8
SV-642-25	4/22/98	ON	ND	ND	ND	QN ON	9160	0 411	1 33
SV-642-26	4/22/98	QN	ND	ND	ND	ND	1 85	0 546	2.4
SV-642-27	4/22/98	QN QN	ND	ND	ND	ON ON	3 98	0 725	4 71
SV-642-28	4/22/98	ND	ND	QN QN	QN	Q	1 45	0 538	1 99
SV-642-29	4/22/98	Q	QN	ΩN	Ð	QN ON	1	0 33	1 43

Table 3 1998 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Largemouth Bass Fillets
RMT, Inc., Stafford, Texas

Replicate	Sample					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	6 88	4 55	1 03	1 33 / 1 24d	0 4	0 62
02	10 80	5 27	2 4	0 349	0 564	0 464
03	12 4 / 8 6d	4 13	1 64	0 842	0 112 *	0 506
04	2 74	4 12	19	1 65	0 112 *	0 812
05	3 39	4 59	1 24	1 04	304 / 281d	0 128
06	6 38	4 54	3 19	0 849	0 112 *	0 112 *
07	5 37	2 25	4 02	0 478	0 12 *	0 118
08	12 7	3 68	1 27	0 251	0 112 *	0 153
09	10 9	3 82 / 4 63d	0 806	0 221	0 112 *	0 112 *
10	17 2	4 58	1 14	0 561	0 112 *	0 144
Mean	8.69	4.19	1.86	0.75	0.16	0.31
Std. Dev.	4.52	0.80	1.04	0.47	0.19	0.27

^{*}One half of the detection limit is used for the averaging value

Largemouth Bass



d = duplicate, average of duplicate and value is used for averaging value

Table 4 1998 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Hybrid Bass Fillets RMT, Inc., Stafford, Texas

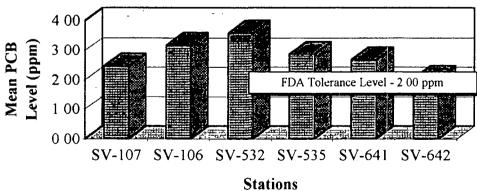
Replicate	Sample					,
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	3 88	0 658	3 77 / 3 55d	2 10	1	1 17 / 1 24d
02	1 89	1 19	1 76	1 37	1 75	0 91
03	4 53	10 3	3 87	1 26	2 9	1 66
04	3 91	1 1	3 75	4 67	1 27	2 96
05	2 68	3 24	2 16	1 96	2 86	18
06	1 12	2 54	3 54	2 14	2 7	1 33
07	1 51	7 06	3 27	5 29	8 37	2 4
08	1 67	3 09	8 24	4 66	1 18	4 710
09	0 97	1 1	1 95	2 380	2 13	1 99
10	2 46	1 5			4 79	1 43
Mean	2.46	3.18	3.58	2.87	2,68	2.04
Std. Dev.	1.26	3.13	1.93	1.55	2.26	1.11

^{*}One half of the detection limit is used for the averaging value

Note Replicates 01 and 02 for SV-107, replicate 06 for SV-532, replicates 03 and 07 for SV-532, and replicate 02 for SV were Striped Bass, not Hybrid Bass

Note Replicate 03 for SV-107 was a White Bass, not Hybrid Bass

Hybrid Bass



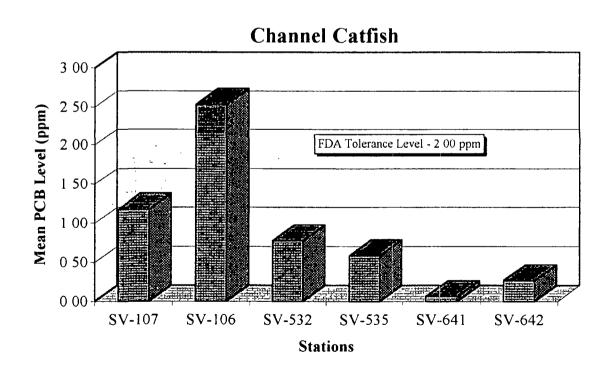
d = duplicate, average of duplicate and value is used for averaging value

Table 5 1998 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Channel Catfish Fillets
RMT, Inc., Stafford, Texas

Replicate	Station	·				
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	0 581	3 01	0 697	0 788	0 118 *	0 12
02	1 22	4 3	0 66	0 523	0 114 *	0 231
03	1 61 / 1 26d	1 34	1 05	1 04 / 0 877d	0 117 *	0 556
04	1 46	1 47	0 681	0 112 *	0 114 *	0 16
Mean	1.17	2.53	0.77	0.58	0.06	0.27
Std. Dev.	0.410	1.40	0.19	0.39	0.00	0.20

d = duplicate

d = duplicate, average of duplicate and value is used for averaging value



^{*}One half of the detection limit is used for the averaging value

gill at SV-532) Gizzard shad, however, were generally smaller than those collected in previous years. The highest concentration of PCBs in an individual forage fish was a bluegill at SV-107 (8.4 ppm). The PCB concentrations were less than 2.0 ppm in five of the nine forage fish samples and less than 1.0 ppm for all species at station SV-641 The PCB concentrations were lower in each forage fish species with distance from the Twelvemile Creek Arm of Lake Hartwell. The forage species with the highest PCB concentration was bluegill at SV-107 (4.08 ppm).

The PCB concentrations detected in the 1998 fish study were compared to historic data dating from 1990 to present. Illustrated in Figures 4 through 6 are the trends in average PCB concentration of fish fillets for largemouth bass, hybrid bass and channel catfish, respectively. Each figure depicts the trend of PCB concentrations for each of the six locations sampled The 2.0 ppm FDA limit was consistently exceeded in largemouth bass fillets (Figure 4) from two stations, SV-107 and SV-106, during this nine-year period A single exceedance was reported at station SV-532 during 1994 No exceedances in average largemouth bass PCB concentrations have been reported at stations SV-535, SV-641 and SV-642 from 1990 to 1998 Distinct trends over time were not observed in the data in the lower four stations (where concentrations were generally below 2.0 ppm) while generally lower concentrations of PCBs were detected at SV-107 and SV-106 from 1990 to present. The 1998 value at SV-106, however, was the second highest for largemouth bass during the nine-year period. The concentration detected at SV-107 (8.69 ppm) during 1998 is similar to the concentrations detected in 1996 and 1997, and it remains elevated over the concentrations detected in the previous years. The concentrations detected in 1996, 1997, and 1998, however, were less than the concentrations detected in 1990 and 1991 This is believed to be reflective of an overall decrease in PCBs due to natural degradation, covering, and source reduction.

The database for hybrid bass does not include all years for all stations for the period 1990 through 1998 due to difficulties in collecting this highly mobile species. Hybrid bass were collected at all locations during 1998, however, striped bass were substituted at some stations due to the lack of adequate sized hybrid bass during the sampling period. The mean PCB concentrations (see Figure 5) tend to indicate that the trend of PCB reduction indicated by largemouth bass on a localized basis is somewhat evidenced by hybrid bass. The historic data indicate that PCB concentrations appear to be randomly scattered by date and location. The 1998 data indicate that the concentration of PCBs was lowest in the station near the dam (SV-642), which is the greatest distance from Twelvemile Creek. The stations with generally the highest concentrations are SV-106 and SV-532. The degree of scatter in these data may be attributed to the

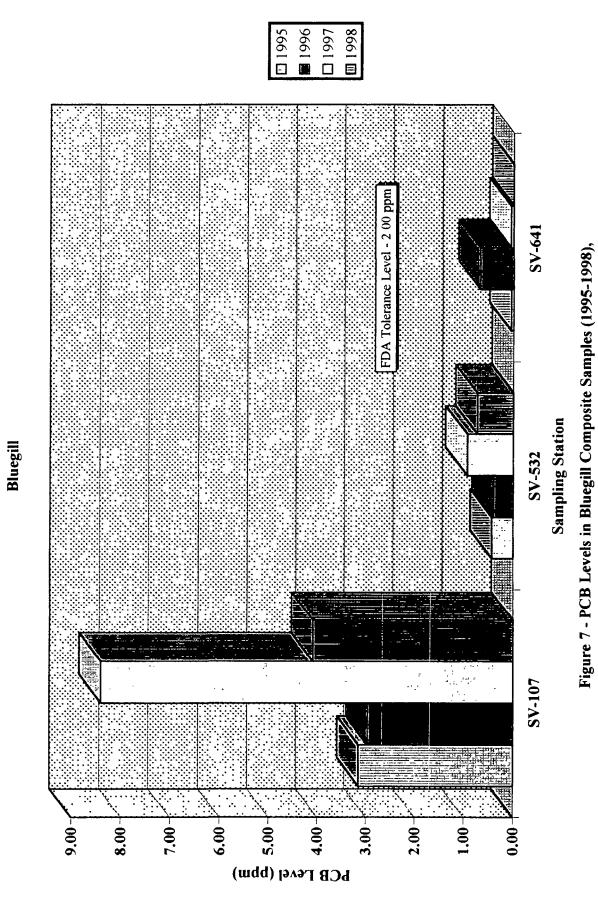
wide migratory movements of the hybrid bass, which expose them to all areas of the lake. In addition, the PCB concentrations in hybrid bass are generally lower at SV-107 than other stations. This may be due to the use of the Keowee River by hybrids in this area.

The annual trends in mean PCB concentrations in catfish fillets (see Figure 6) were similar to those in largemouth bass, with lower concentrations detected over an increased distance from Twelvemile Creek. The concentration of PCBs, however, was highest at SV-106 rather than SV-107 as in most past sampling events. In addition, the 2.0 ppm level was not exceeded in any of the fish samples in the four most distant stations and station SV-107. The concentrations detected at SV-106 tend to indicate a slight increase over the 1995 to 1997 period; however, the 1998 data indicate a general trend of PCB reductions in catfish fillets lake-wide.

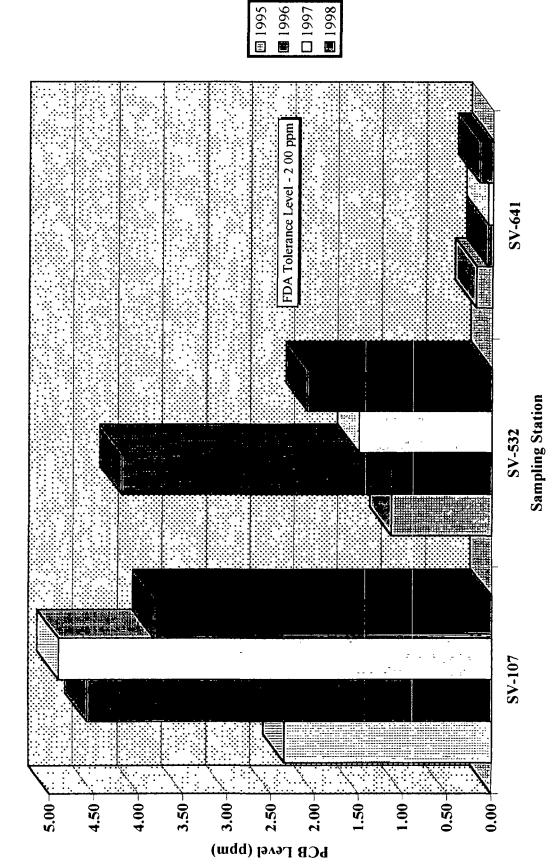
A total of four sampling surveys have been conducted from 1995 through 1998 with collection of consistent size and species of fish. With these data, the concentration of PCBs in the forage fish species were plotted (Figures 7, 8, and 9 for bluegill, threadfin shad, and gizzard shad, respectively). These data, collected over a limited period of time do not indicate definitive trends in the reduction of PCBs in forage fish with the possible exception of gizzard shad (Figure 9). The gizzard shad data indicate an apparent steady decrease in PCBs over time and with distance downstream of Twelvemile Creek. Significant decreases were observed from 1997 to 1998. In general, the decrease in PCB concentrations with distance from the Twelvemile Creek is also observed in the bluegill and threadfin shad. In 1997 and 1998 the concentration of PCBs in bluegill was higher than previous years, while threadfin shad indicated more erratic concentrations over time. Additional data is needed to identify definitive trends in these data.

3.2 SEDIMENTS

Sediment data are summarized in Table 7 for the 21 samples collected in April of 1998 (see Appendix B for individual results of analyses and Figures 2 and 3 for site maps with sample locations and PCB results). Sediment values ranged from 2.83 ppm collected at two locations SD-009 and SD-011 in the Twelvemile Creek Arm to non-detected levels observed near the Lake Hartwell Dam, background locations upstream, and the Tugaloo River Arm. The maximum concentration detected in 1998 was much less than the maximum concentration detected in 1997 (11.0 ppm). The concentrations generally decreased in an upstream direction from the high value of 2.83 ppm to a concentration of 0.255 ppm near Maw Bridge (SD-006). The concentrations in Twelvemile Creek upstream of Lake



Lake Hartwell OU2 Fish Study



Threadfin Shad

Figure 8 - PCB Levels in Threadfin Shad Composite Samples (1995-1998), Lake Hartwell OU2 Fish Study

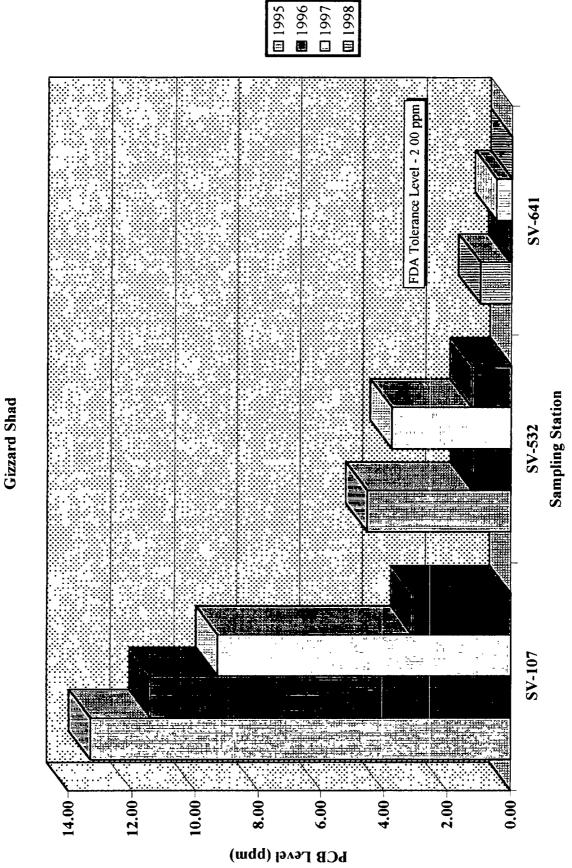
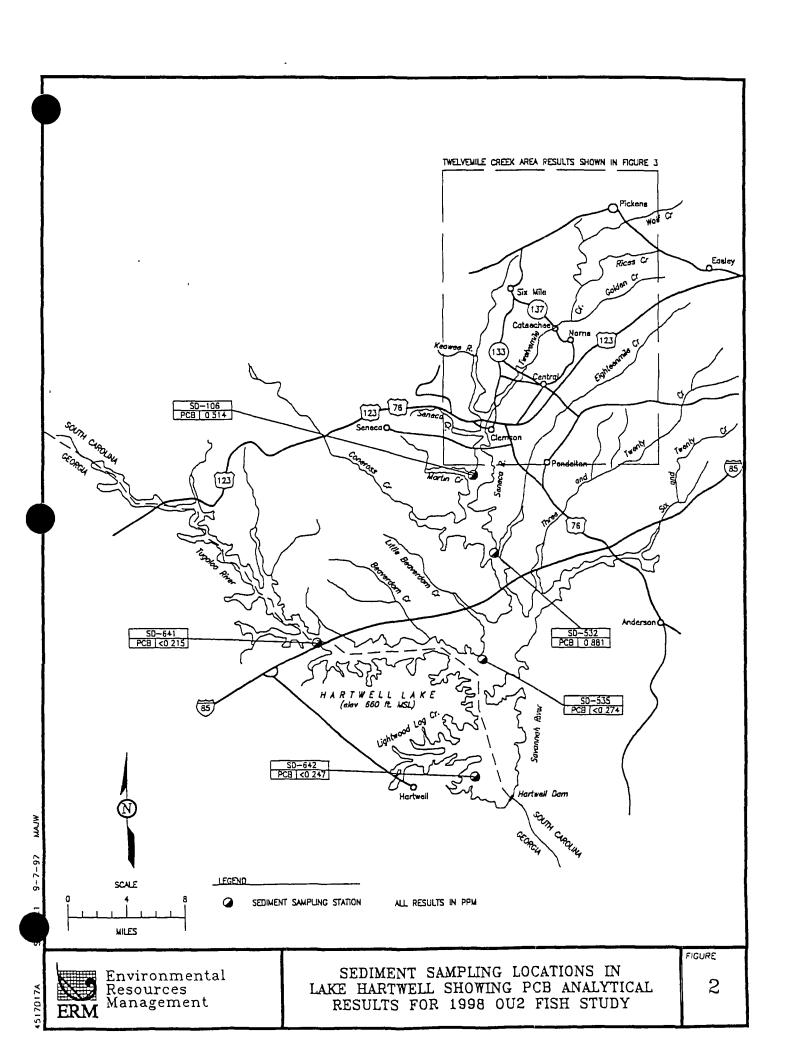
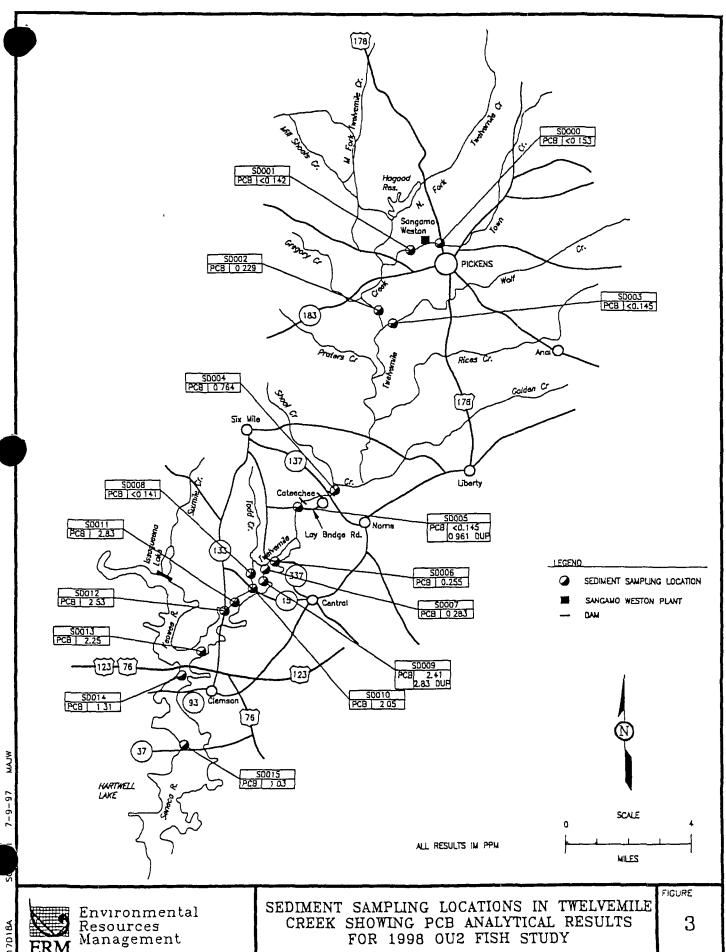
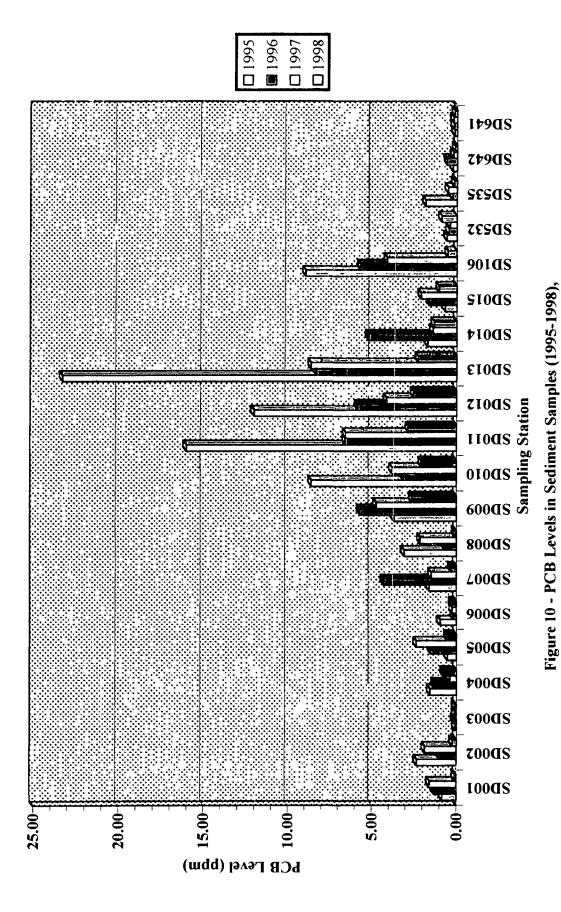


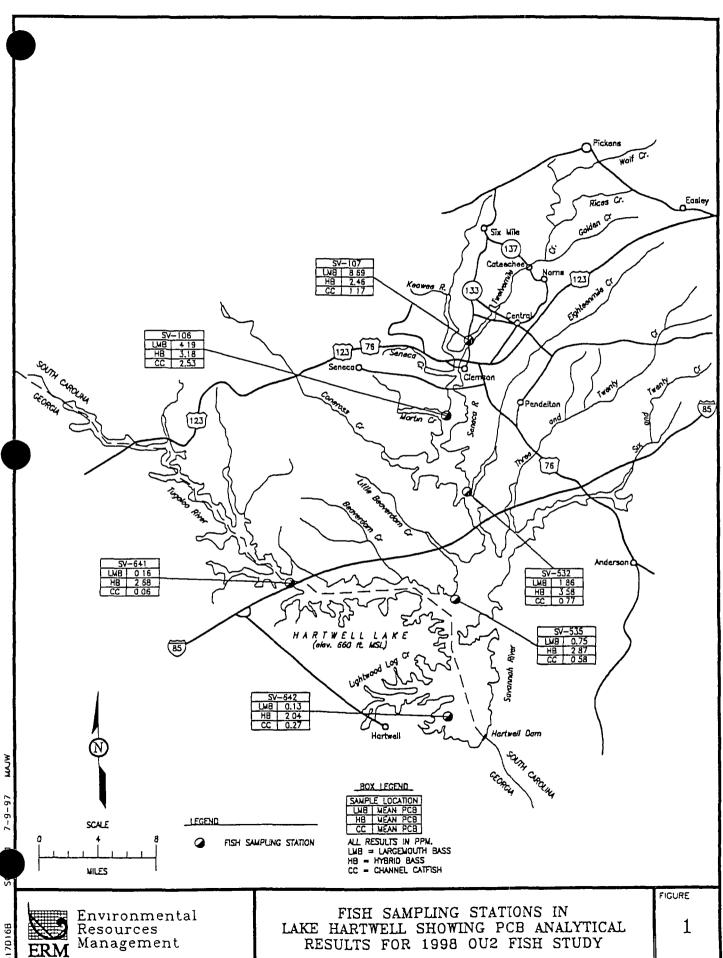
Figure 9 - PCB Levels in Gizzard Shad Composite Samples (1995-1998), Lake Hartwell OU2 Fish Study

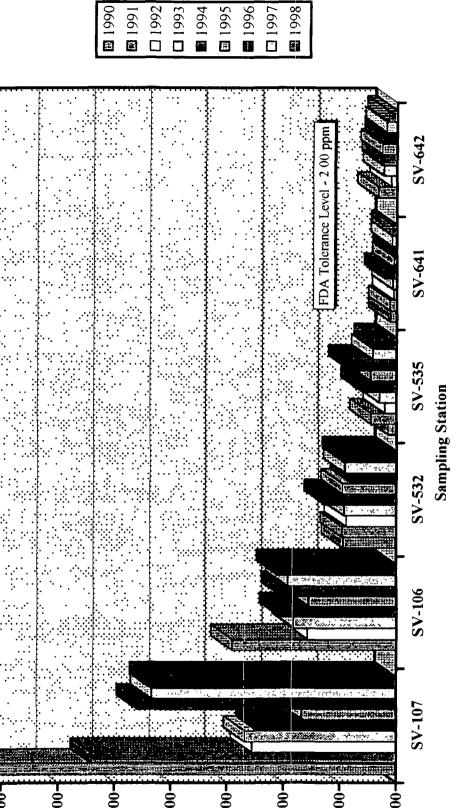






Lake Hartwell OU2 Fish Study

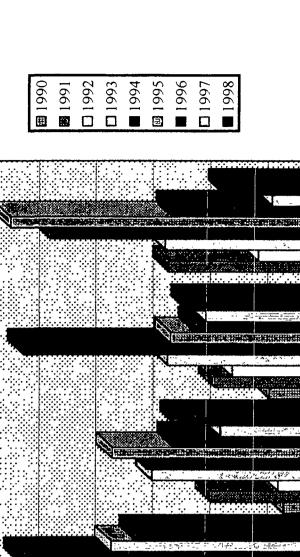




Mean PCB Level (ppm)

Largemouth Bass

Figure 4 - PCB Levels in Largemouth Bass Fillet Samples (1990-1998), Lake Hartwell OU2 Fish Study



FDA Tolerance Level - 2 00 ppm

2.00

3.00

Hybrid Bass

6.00

5.00

Mean PCB Level (ppm)

Figure 5 - PCB Levels in Hybrid Bass Fillet Samples (1990-1998), Lake Hartwell OU2 Fish Study

SV-641

SV-535

SV-532

SV-106

SV-107

1.00

Sampling Station

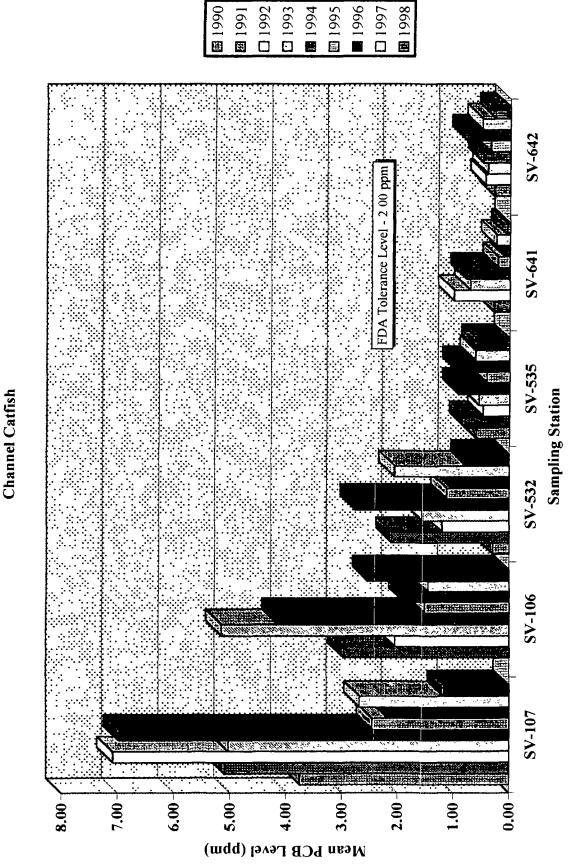


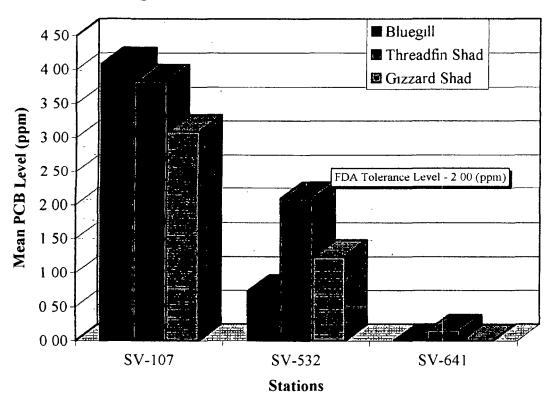
Figure 6 - PCB Levels in Channel Catfish Fillet Samples (1990-1998), Lake Hartwell OU2 Fish Study

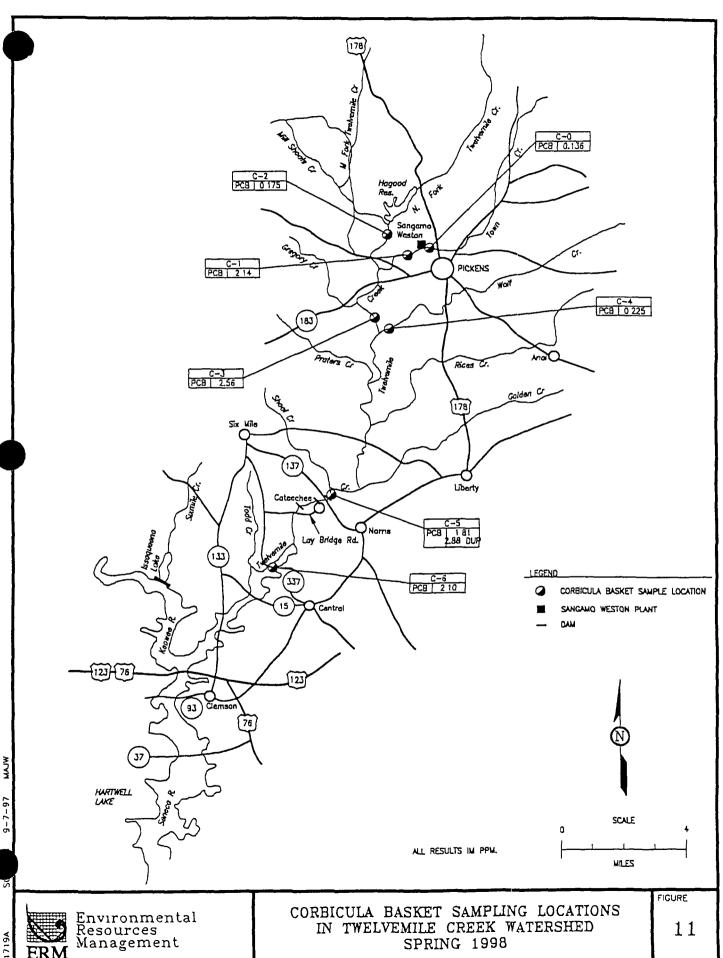
Table 6 1998 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Bluegill, Threadfin Shad, and Gizzard Shad Composites RMT, Inc., Stafford, Texas

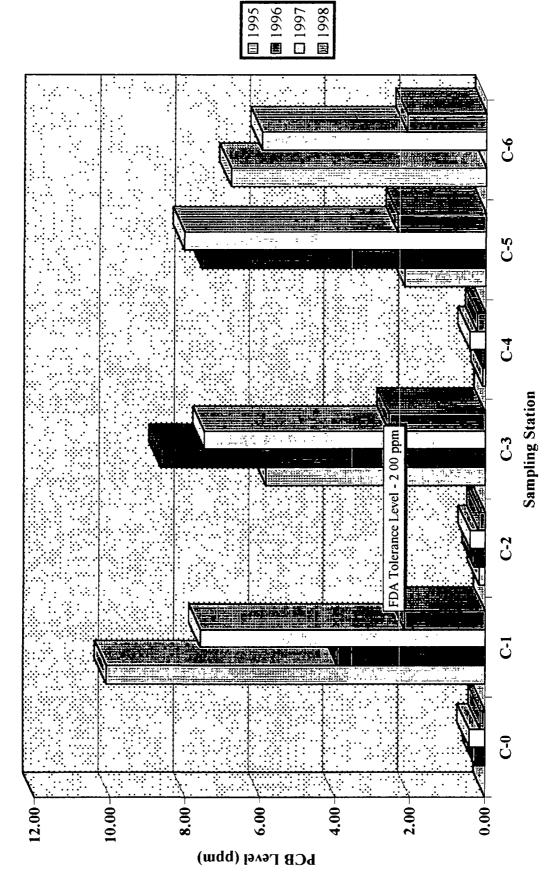
Species	Station					
Composite	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
Bluegill	4 08	NA	0 728	NA	0	NA
Threadfin Shad	3 83	NA	2 09	NA	0 148	NA
Gızzard Shad	3 09	NA	1 24	NA	0	NA

d = duplicate

Bluegill, Threadfin Shad, and Gizzard Shad







Corbicula

Figure 12 - PCB Levels in Corbicula Composite Samples (1995-1998), Lake Hartwell OU2 Fish Study

Appendix B Sediment Analytical Data Sheets

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CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-000

NEA ID:

AB02448

MATRIX:

SEDIMENT

DATE SAMPLED. 4/24/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10.30

PROJECT

4517, SCHLUM-1

SAMPLED BY.

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	nated Biphenyls				
Aroclor 1016	ND	0 153	μg/g	5/17/98	
Aroclor 1221	ND	0.153	μg/g	5/17/98	
Aroclor 1232	ND	0 153	μg/g	5/17/98	
Aroclor 1242	ND	0 153	μg/g	5/17/98	
Aroclor 1248	ND	0 153	μg/g	5/17/98	
Aroclor 1254	ND	0 153	μ <u>g</u> /g	5/17/98	
Aroclor 1260	ND	0 153	μg/g	5/17/98	
Total PCB Amount > Reporting Li	mit 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SD-001

NEA ID.

AB02449

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

UNITS

μg/g

μg/g

μg/g

μg/g

μg/g

μg/g

 $\mu g/g$

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30 PI

PROJECT:

4517, SCHLUM-1

5/17/98

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

PARAMETER PERFORMED

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

N/A

SW-846 Method 8082, Polychlorinated Biphenvls

LAB ELAP #

POL

0.142

0 142

0.142

0.142

0 142

0.142

0.142

11078

5/17/98 5/17/98 5/17/98 5/17/98 5/17/98 5/17/98 5/17/98

Total PCB Amount > Reporting Limit

ND

RESULTS

ND

ND

ND

ND

ND

ND

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-002

NEA ID:

AB02450

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO.

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychl	orinated Biphenyls					
Aroclor 1016	ND	0 138	μg/g	5/17/98		
Aroclor 1221	ND	0 138	μg/g	5/17/98		
Aroclor 1232	ND	0.138	μg/g	5/17/98		
Aroclor 1242	ND	0 138	μg/g	5/17/98		
Aroclor 1248	ND	0 138	μg/g	5/17/98		
Aroclor 1254	0 229	0 138	μⴁ/g	5/17/98	AF	
Aroclor 1260	ND	0 138	μg/g	5/17/98		
Total PCB Amount > Reporting	Limit 0 229					

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-OO3

NEA ID

AB02451

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

TIME. N/A

DATE RECEIVED:

4/30/98

TIME: 1030

PROJECT

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016	ND	0 145	μg/g	5/17/98	
Aroclor 1221	ND	0 145	μg/g	5/17/98	
Aroclor 1232	ND	0 145	μg/g	5/17/98	
Aroclor 1242	ND	0 145	μg/g	5/17/98	
Aroclor 1248	ND	0 145	μg/g	5/17/98	
Aroclor 1254	ND	0 145	μg/g	5/17/98	
Aroclor 1260	ND	0 145	μg/g	5/17/98	
Total PCB Amount > Reporting Lin	ut 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SD-004

NEA ID

AB02452

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

TIME: N/A

DATE RECEIVED.

4/30/98

TIME: 10 30

PROJECT:

4517, SCHLUM-1

SAMPLED BY.

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls				-	
Aroclor 1016	ND	0 153	μg/g	5/18/98		
Aroclor 1221	ND	0 153	μց/ց	5/18/98		
Aroclor 1232	ND	0 153	μg/ <u>g</u>	5/18/98		
Aroclor 1242	0 274	0 153	μց/ց	5/18/98	PD	
Aroclor 1248	ND	0 153	μg/g	5/18/98		
Aroclor 1254	0 490	0 153	μg/g	5/18/98	AF	
Aroclor 1260	ND	0 153	μg/g	5/18/98		
Total PCB Amount > Reporting L	imit 0 764					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR

CUSTOMER ID:

SD-005

NEA ID:

AB02453

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polych	lorinated Biphenyls			··········	
Aroclor 1016	ND	0 145	μg/g	5/18/98	
Aroclor 1221	ND	0 145	μg/g	5/18/98	
Aroclor 1232	ND	0 145	μg/g	5/18/98	
Aroclor 1242	ND	0 145	μg/g	5/18/98	
Aroclor 1248	ND	0 145	μg/g	5/18/98	
Aroclor 1254	ND	0 145	μg/g	5/18/98	
Aroclor 1260	ND	0 145	μg/g	5/18/98	

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

DUP 2 COG

NEA ID:

AB02454

MATRIX:

SEDIMENT

DATE SAMPLED: 4/24/98

TIME. N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT.

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #1

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE 1 ESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 151	μg/g	5/18/98	
Aroclor 1221	ND	0 151	μg/g	5/18/98	
Aroclor 1232	ND	0.151	μg/g	5/18/98	
Aroclor 1242	0 403	0 151	μg/g	5/18/98	PD
Aroclor 1248	ND	0 151	μg/g	5/18/98	
Aroclor 1254	0 558	0 151	μg/g	5/18/98	AF
Aroclor 1260	ND	0 151	μg/g	5/18/98	

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantity PCB present in sample that has undergone environmental alteration.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

0 961

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc.

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID-

SD-06

NEA ID:

AB02336

MATRIX:

SEDIMENT

DATE SAMPLED. 4/22/98

TIME: 17 00

DATE RECEIVED:

4/24/98

TIME: 9 30

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 0 141 5/6/98 Aroclor 1016 ND μg/g Aroclor 1221 ND 0.141 5/6/98 μg/g Aroclor 1232 0.141 5/6/98 ND μg/g Aroclor 1242 0 255 0 141 μg/g 5/6/98 PD Aroclor 1248 0 141 5/6/98 ND μg/g Aroclor 1254 ND 0 141 5/6/98 μg/g 5/6/98 Aroclor 1260 0 141 ND μg/g Total PCB Amount > Reporting Limit 0 255

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-07

NEA ID:

AB02337

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 17 15

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls				-
Aroclor 1016	ND	0 142	μg/g	5/6/98	
Aroclor 1221	ND	0 142	μg/g	5/6/98	
Aroclor 1232	ND	0 142	μg/g	5/6/98	
Aroclor 1242	ND	0 142	μg/g	5/6/98	
Aroclor 1248	0 283	0 142	μg/g	5/6/98	ΑE
Aroclor 1254	ND	0 142	μg/g	5/6/98	
Aroclor 1260	ND	0 142	μg/g	5/6/98	
Total PCB Amount > Reporting Lii	mit 0 283				

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-08

NEA ID:

AB02338

MATRIX:

SEDIMENT

DATE SAMPLED 4/22/98

TIME: 17 30

DATE RECEIVED:

4/24/98

TIME. 9 30

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO: N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/6/98 Aroclor 1016 ND 0 141 μg/g Aroclor 1221 ND 0 141 5/6/98 μg/g Aroclor 1232 ND 0 141 5/6/98 ug/g 5/6/98 Aroclor 1242 0 141 ND μg/g Aroclor 1248 ND 0 141 μg/g 5/6/98 5/6/98 Aroclor 1254 ND 0 141 μg/g Aroclor 1260 ND 0 141 μg/g 5/6/98

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SD-09

NEA ID:

AB02339

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 17 45

DATE RECEIVED:

4/24/98

TIME 9 30

PROJECT:

4517. SCHLUM

SAMPLED BY:

CUSTOMER PO:

N/A N/A LOCATION

LAB ELAP #

N/A 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	nated Biphenyls					
Aroclor 1016	ND	0 285	μg/g	5/6/98		
Aroclor 1221	ND	0 285	μg/g	5/6/98		
Aroclor 1232	ND	0 285	μg/g	5/6/98		
Aroclor 1242	0 738	0 285	μg/g	5/6/98	PD	
Aroclor 1248	ND	0 285	μ g /g	5/6/98		
Aroclor 1254	1 34	0 285	μ <u>ց</u> /ց	5/6/98		
Aroclor 1260	0 334	0 285	μg/g	5/6/98		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD
SUITE 228
BRENTWOOD, TN 37027
CONTACT JIM ORR

CUSTOMER ID:

SD-10

NEA ID:

AB02340

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 1830

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	nted Biphenyls		•			
Aroclor 1016	ND	0 257	μg/g	5/6/98		
Aroclor 1221	ND	0 257	μg/g	5/6/98		
Aroclor 1232	ND	0 257	μg/g	5/6/98		
Aroclor 1242	1 03	0 257	μg/g	5/6/98	PD	
Aroclor 1248	ND	0 257	μg/g	5/6/98		
Aroclor 1254	1 02	0 257	μg/g	5/6/98		
Aroclor 1260	ND	0 257	μg/g	5/6/98		
Total PCB Amount > Reporting Lim	ıt 2 05					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL A A MA

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR

CUSTOMER ID.

SD-11

NEA ID.

AB02341

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME. 18 45

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT:

N/A

4517, SCHLUM

SAMPLED BY:

CUSTOMER PO:

N/A

N/A

LOCATION.

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polych	lorinated Biphenyls					
Aroclor 1016	ND	0 343	μg/g	5/6/98		
Aroclor 1221	ND	0 343	μg/g	5/6/98		
Aroclor 1232	ND	0 343	μg/g	5/6/98		
Aroclor 1242	1 66	0 343	μg/g	5/6/98	PD .	
Aroclor 1248	ND	0 343	μg/g	5/6/98	•	
Aroclor 1254	1 17	0 343	μg/g	5/6/98		
Aroclor 1260	ND	0.343	па/а	5/6/98		

PD-Arocler 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 83

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SD-12

NEA ID.

AB02342

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 19 00

DATE RECEIVED:

4/24/98

TIME. 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RFSULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 479	μg/g	5/6/98	
Aroclor 1221	ND	0 479	μg/g	5/6/98	
Aroclor 1232	ND	0 479	μg/g	5/6/98	
Aroclor 1242	1 45	0 479	μg/g	5/6/98	PD
Aroclor 1248	ND	0 479	μg/g	5/6/98	
Aroclor 1254	1 08	0 479	μg/g	5/6/98	
Aroclor 1260	ND	0 479	μg/g	5/6/98	
Total PCB Amount > Reporting L	imit 2 53				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SD-13

NEA ID

AB02343

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 19 15

DATE RECEIVED:

4/24/98

TIME. 9 30

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/.A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RFSULTS	PQL	UNIIS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlori	nated Biphenyls					
Aroclor 1016	ND	0 344	μg/g	5/6/98		
Aroclor 1221	ND	0 344	μg/g	5/6/98		
Aroclor 1232	ND	0 344	μ <u>g</u> /g	5/6/98		
Aroclor 1242	1 69	0 344	μg/g	5/6/98	PD	
Aroclor 1248	ND	0 344	μg/g	5/6/98		
Aroclor 1254	0 561	0 344	μg/g	5/6/98		
Aroclor 1260	ND	0 344	μg/g	5/6/98		
Total PCB Amount > Reporting Lii	mıt 2 25					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantity PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-14

NEA ID:

AB02344

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 19 30

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls	-			
Aroclor 1016	ND	0 334	μg/g	5/6/98	
Aroclor 1221	ND	0 334	μg/g	5/6/98	
Aroclor 1232	ND	0 334	μg/g	5/6/98	
Aroclor 1242	0 906	0 334	μg/g	5/6/98	PD
Aroclor 1248	ND	0 334	μg/g	5/6/98	
Aroclor 1254	0 406	0 334	μg/g	5/6/98	
Aroclor 1260	ND	0 334	μg/g	5/6/98	
Total PCB Amount > Reporting I	Limit 131				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample but is reported to more accurately quantity PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/13/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

DUP-1 OOA

NEA ID:

AB02345

MATRIX:

SEDIMENT

DATE SAMPLED: 4/22/98

TIME: 17 45

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorir	ated Biphenyls	<u>-</u>				
Aroclor 1016	ND	0 290	μg/g	5/6/98		
Aroclor 1221	ND	0 290	μg/g	5/6/98		
Aroclor 1232	ND	0 290	μg/g	5/6/98		
Aroclor 1242	1 70	0 290	μg/g	5/6/98	PD	
Aroclor 1248	ND	0 290	μg/g	5/6/98		
Aroclor 1254	1 13	0 290	μ <u>ց</u> /ց	5/6/98		
Aroclor 1260	ND	0 290	μg/g	5/6/98		
Total PCB Amount > Reporting Lin	nit 2 83					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-15

NEA ID:

AB02442

MATRIX:

SEDIMENT

DATE SAMPLED: 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls					
Aroclor 1016	ND	0 291	μg/g	5/17/98		
Aroclor 1221	ND	0 291	μg/g	5/17/98		
Aroclor 1232	ND	0 291	μg/g	5/17/98		
Aroclor 1242	0 712	0 291	μg/g	5/17/98	PD	
Aroclor 1248	ND	0 291	μg/g	5/17/98		
Aroclor 1254	0 320	0 291	μg/g	5/17/98	AF	
Aroclor 1260	ND	0 291	μg/g	5/17/98		
Total PCB Amount > Reporting Lim	ıt 1 03					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AND MARK

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS
5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID-

SD-106

NEA ID:

AB02443

MATRIX:

SEDIMENT

DATE SAMPLED: 4/23/98

TIME, N/A

DATE RECEIVED:

4/30/98

TIME 10 30 **PRO**

PROJECT.

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	ated Biphenyls					
Aroclor 1016	ND	0 425	μg/g	5/17/98		
Aroclor 1221	ND	0 425	μg/g	5/17/98		
Aroclor 1232	ND	0 425	μg/g	5/17/98		
Aroclor 1242	0 514	0 425	μg/g	5/17/98	PD	
Aroclor 1248	ND	0 425	μg/g	5/17/98		
Aroclor 1254	ND	0 425	μg/g	5/17/98		
Aroclor 1260	ND	0 425	μg/g	5/17/98		
Total PCB Amount > Reporting Lim	it 0 514					

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-532

NEA ID.

AB02444

MATRIX.

SEDIMENT

DATE SAMPLED. 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT:

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls				
Aroclor 1016	ND	0 209	μg/g	5/17/98	
Aroclor 1221	ND	0 209	μg/g	5/17/98	
Aroclor 1232	ND	0 209	μg/g	5/17/98	
Aroclor 1242	0 425	0 209	μg/g	5/17/98	PD
Aroclor 1248	ND	0 209	μg/g	5/17/98	
Aroclor 1254	0 456	0 209	μg/g	5/17/98	AF
Aroclor 1260	ND	0 209	μg/g	5/17/98	
Total PCB Amount > Reporting Lin	mit 0 881				

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantity PCB present in sample that has undergone environmental alteration.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AMA A,

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-535

NEA ID

AB02445

MATRIX:

SEDIMENT

DATE SAMPLED: 4/23/98

TIME: N/A

DATE RECEIVED.

4/30/98

TIME: 10 30

PROJECT.

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

UNITS PARAMETER PERFORMED RESULTS PQL DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 274 μg/g 5/17/98 Aroclor 1221 ND 0 274 5/17/98 μg/g Aroclor 1232 ND 5/17/98 0 274 μg/g Aroclor 1242 ND 0 274 5/17/98 μg/g Aroclor 1248 ND 0 274 μց/ց 5/17/98 Aroclor 1254 ND 0 274 5/17/98 μg/g Aroclor 1260 5/17/98 ND 0 274 μg/g

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-641

NEA ID:

AB02447

MATRIX:

SEDIMENT

DATE SAMPLED, 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT:

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO.

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polyc	hlorinated Biphenyls				
Aroclor 1016	ND	0 215	μg/g	5/17/98	
Aroclor 1221	ND	0 215	μց/ց	5/17/98	
Aroclor 1232	ND	0 215	μg/g	5/17/98	
Aroclor 1242	ND	0 215	μg/g	5/17/98	
Aroclor 1248	ND	0 215	μg/g	5/17/98	
Aroclor 1254	ND	0 215	μg/g	5/17/98	
Aroclor 1260	ND	0 215	μg/g	5/17/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/21/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SD-642

NEA ID:

AB02446

MATRIX:

SEDIMENT

DATE SAMPLED: 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 10 30 **PR**6

PROJECT

4517, SCHLUM-1

SAMPLED BY:

CUSTOMER PO:

N/A N/A LOCATION:
LAB ELAP #:

N/A 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 247	μg/g	5/17/98	
Aroclor 1221	ND	0 247	μg/g	5/17/98	
Aroclor 1232	ND	0 247	μg/g	5/17/98	
Aroclor 1242	ND	0 247	μg/g	5/17/98	
Aroclor 1248	ND	0 247	μg/g	5/17/98	
Aroclor 1254	ND	0 247	μg/g	5/17/98	
Aroclor 1260	ND	0 247	μg/g	5/17/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/11/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

MATRIX:

SEDIMENT

DATE SAMPLED

4/22/98

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT

4517 SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

NEA ID	CUSTOMER ID	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AB02336	SD-06	Total Organic Carbon	1500	1200	mg/kg	5/4/98
AB02337	SD-07	Total Organic Carbon	5100	4400	mg/kg	5/4/98
AB02338	SD-08	Total Organic Carbon	1500	880	mg/kg	5/4/98
AB02339	SD-09	Total Organic Carbon	23000	3900	mg/kg	5/4/98
AB02340	SD-10	Total Organic Carbon	18000	11000	mg/kg	5/4/98
AB02341	SD-11	Total Organic Carbon	29000	13000	mg/kg	5/4/98
AB02342	SD-12	Total Organic Carbon	35000	14000	mg/kg	5/4/98
AB02343	SD-13	Total Organic Carbon	25000	9700	mg/kg	5/4/98
AB02344	SD-14	Total Organic Carbon	21000	10000	mg/kg	5/4/98
AB02345	DUP-1	Total Organic Carbon	29000	4700	mg/kg	5/4/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL A AMAIL A

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/11/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

MATRIX:

SOIL

PROJECT

4517, SCHLUM

DATE RECEIVED:

4/30/98

TIME: 10.30

LOCATION:

N/A

SAMPLED BY:

J ORR

LAB ELAP #:

11078

CUSTOMER PO:

N/A

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	RESULTS	PQL	UNITS	DATE TESTED
AB02442	SD-15	Total Organic Carbon	4/23/98	25000	4600	mg/kg	5/5/98
AB02443	SD-106	Total Organic Carbon	4/23/98	32000	7000	mg/kg	5/5/98
AB02444	SD-532	Fotal Organic Carbon	4/23/98	25000	3300	mg/kg	5/5/98
AB02445	SD-535	Total Organic Carbon	4/23/98	24000	6100	mg/kg	5/5/98
AB02446	SD-642	Total Organic Carbon	4/23/98	29000	4800	mg/kg	5/6/98
AB02447	SD-641	Total Organic Carbon	4/23/98	13000	4700	mg/kg	5/5/98
AB02448	SD-000	Total Organic Carbon	4/24/98	2400	1200	mg/kg	5/6/98
AB02449	SD-001	Fotal Organic Carbon	4/24/98	1500	1200	mg/kg	5/6/98
AB02450	SD-002	Total Organic Carbon	4/24/98	1400	1300	mg/kg	5/6/98
AB02451	SD-OO3	Total Organic Carbon	4/24/98	2000	1400	mg/kg	5/6/98
AB02452	SD-004	Total Organic Carbon	4/24/98	2300	1400	mg/kg	5/6/98
AB02453	SD-OO5	Fotal Organic Carbon	4/24/98	ND	1300	mg/kg	5/6/98
AB02454	DUP 2	Total Organic Carbon	4/24/98	2400	1500	mg/kg	5/6/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE _

Northeast Analytical Inc

Appendix A Fish Analytical Data Sheets

NORTHEAST ANALYTICAL _______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV107-01

NEA ID:

AB02065

MATRIX:

FISH

DATE SAMPLED: 4/14/98

4/98 **TIME:** N/A

DATE RECEIVED:

4/16/98

TIME 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

	PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
•	SW-846 Method 8082, Polychlorinate	d Biphenyls				
)	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 6 33 0 550	0 336 0 336 0 336 0 336 0 336 0 336	ኩል/8 ኩል/8 ኩል/8 ኩል/8 ኩል/8	4/30/98 4/30/98 4/30/98 4/30/98 4/30/98 4/30/98	
	Total PCB Amount > Reporting Limit	6 88	0.550	h g /8	4/30/70	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL m then the c

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV107-02

NEA ID:

AB02066

MATRIX:

FISH

DATE SAMPLED: 4/14/98

DATE RECEIVED:

4/16/98

TIME: 945

PROJECT.

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

CUSTOMER PO:

N/A

LAB ELAP #.

N/A 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 896 $\mu g/g$ 4/30/98 Aroclor 1221 ND 0 896 4/30/98 μg/g Aroclor 1232 ND 0 896 4/30/98 μg/g Aroclor 1242 ND 0 896 4/30/98 μg/g Aroclor 1248 ND 0 896 4/30/98 μg/g Aroclor 1254 0 896 961 μg/g 4/30/98 Aroclor 1260 118 0 896 4/30/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

108

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-03

NEA ID:

AB02067

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME. 945

PROJECT.

4517. SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 896 μg/g 4/30/98 Aroclor 1221 ND 0 896 4/30/98 μg/g Aroclor 1232 ND 0 896 4/30/98 μg/g Aroclor 1242 ND 0 896 4/30/98 μg/g Aroclor 1248 0 896 ND 4/30/98 μg/g Aroclor 1254 105 0.896 μg/g 4/30/98 Aroclor 1260 195 0.896 4/30/98 μg/g Total PCB Amount > Reporting Limit 124

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/7/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-03D

NEA ID:

AB02429

MATRIX:

EICH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

FISH

TIME: 9 45 PROJECT.

4517, SCHLUM

SAMPLED BY:

4/16/98 J ORR

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls					
Aroclor 1016	ND	0 896	μg/g	5/1/98		
Aroclor 1221	ND	0 896	μg/g	5/1/98		
Aroclor 1232	ND	0 896	μg/g	5/1/98		
Aroclor 1242	ND	0 896	μg/g	5/1/98		
Aroclor 1248	ND	0 896	μg/g	5/1/98		
Aroclor 1254	7 00	0 896	μg/g	5/1/98		
Aroclor 1260	1 60	0 896	μg/g	5/1/98		
Total PCB Amount > Reporting Lim	nt 86					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-04

NEA ID.

AB02068

MATRIX:

FISH

DATE SAMPLED: 4/14/98

/98 **TIME:** N/A

DATE RECEIVED:

4/16/98

TIME. 9 45 **PR**

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL.	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ted Biphenyls			'	<u>-</u>
Aroclor 1016	ND	0 336	μg/g	4/30/98	
Aroclor 1221	ND	0 336	μg/g	4/30/98	
Aroclor 1232	ND	0 336	μg/g	4/30/98	
Aroclor 1242	ND	0 336	μg/g	4/30/98	
Aroclor 1248	ND	0 336	μg/g	4/30/98	
Aroclor 1254	3 53	0 336	μg/g	4/30/98	
Aroclor 1260	0 348	0 336	μg/g	4/30/98	
Total PCB Amount > Reporting Limi	t 3 88				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV107-05

NEA ID:

AB02069

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME. 945

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 μg/g 4/30/98 Aroclor 1221 ND 0 112 4/30/98 μg/g Aroclor 1232 ND 4/30/98 0 112 μg/g Aroclor 1242 0 112 4/30/98 ND μg/g Aroclor 1248 4/30/98 ND 0 112 μg/g Aroclor 1254 1 40 0 112 μg/g 4/30/98 Aroclor 1260 0 488 0.112 4/30/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

189

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID.

SV107-07

NEA ID:

AB02071

MATRIX:

DATE SAMPLED: 4/14/98

FISH 4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

UNITS FLAGS PARAMETER PERFORMED RESULTS POL DATE TESTED SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 336 μg/g 5/7/98 Aroclor 1221 ND 0 336 5/7/98 μg/g Aroclor 1232 ND 0 336 5/7/98 μg/g Aroclor 1242 ND 0 336 μg/g 5/7/98 Aroclor 1248 ND 0 336 5/7/98 μg/g Aroclor 1254 3 73 0 336 5/7/98 μg/g Aroclor 1260 0 798 0 336 5/7/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

4 53

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV107-08

NEA ID:

AB02072

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45 PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE FESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 μg/g 4/30/98 Aroclor 1221 ND 0 112 4/30/98 μg/g Aroclor 1232 ND 0.112 μg/g 4/30/98 Aroclor 1242 ND 0.112 4/30/98 μg/g Aroclor 1248 ND 0 112 μg/g 4/30/98 Aroclor 1254 0 581 0 112 4/30/98 μg/g Aroclor 1260 ND 0.112 4/30/98 μg/g Total PCB Amount > Reporting Limit 0 581

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-09

NEA ID:

AB02073

MATRIX:

C.C.I

LDOLOTS

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME. 945

PROJECT: LOCATION.

4517, SCHLUM

SAMPLED BY: CUSTOMER PO: N/A N/A

LAB ELAP #:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				_
Aroclor 1016	ND	0 112	μg/g	4/30/98	
Aroclor 1221	ND	0 112	μg/g	4/30/98	
Aroclor 1232	ND	0 112	μg/g	4/30/98	
Aroclor 1242	ND	0 112	μg/g	4/30/98	
Aroclor 1248	ND	0 112	μg/g	4/30/98	
Aroclor 1254	0 994	0 112	μg/g	4/30/98	
Aroclor 1260	0 230	0 112	μg/g	4/30/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 22

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT. JIM ORR

TIME: 945

CUSTOMER ID:

SV107-10

NEA ID:

AB02074

MATRIX:

....

DATE SAMPLED: 4/14/98

TIME: N/A

FISH

PROJECT:

4517, SCHLUM

SAMPLED BY:

4/16/98 N/A

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/7/98	
Aroclor 1221	ND	0 112	μg/g	5/7/98	
Aroclor 1232	ND	0 112	μg/g	5/7/98	
Aroclor 1242	ND	0 112	μg/g	5/7/98	
Aroclor 1248	ND	0 112	μg/g	5/7/98	
Aroclor 1254	1 40	0 112	μg/g	5/7/98	
Aroclor 1260	0 207	0 112	μg/g	5/7/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

161

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR**

CUSTOMER ID:

SV107-10D

NEA ID:

AB02430

MATRIX:

DATE SAMPLED: 4/14/98

DATE RECEIVED:

FISH 4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

J ORR

LOCATION:

N/A

11078

CUSTOMER PO·

N/A

LAB ELAP #:

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychl	orinated Biphenyls				<u>-</u>
Aroclor 1016	ND	0 112	μg/g	5/4/98	
Aroclor 1221	ND	0 112	μg/g	5/4/98	
Aroclor 1232	ND	0 112	μg/g	5/4/98	
Aroclor 1242	ND	0 112	μg/g	5/4/98	
Aroclor 1248	ND	0 112	μg/g	5/4/98	
Aroclor 1254	1 06	0 112	μg/g	5/4/98	
Aroclor 1260	0 203	0 112	μg/g	5/4/98	
Total PCB Amount > Reporting	Limit 26				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV107-11

NEA ID:

AB02075

MATRIX:

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

FISH 4/16/98

TIME: 9 45

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 4/30/98 μg/g Aroclor 1221 0 224 4/30/98 ND μg/g Aroclor 1232 0 224 4/30/98 ND μg/g Aroclor 1242 ND 0 224 4/30/98 μg/g Aroclor 1248 ND 0 224 μg/g 4/30/98 Aroclor 1254 1 24 0 224 4/30/98 μg/g Aroclor 1260 0 224 0 224 4/30/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 46

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

NORTHEAST ANALYTICAL ________

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

CUSTOMER ID:

SV107-12

NEA ID:

AB02076

MATRIX:

FISH

4/16/98

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 336 4/30/98 μg/g Aroclor 1221 ND 0 336 μg/g 4/30/98 Aroclor 1232 ND 0 336 4/30/98 μg/g Aroclor 1242 4/30/98 ND 0 336 μg/g Aroclor 1248 ND 0 336 4/30/98 μg/g Aroclor 1254 0 336 2 59 μg/g 4/30/98 Aroclor 1260 0.498 0 336 4/30/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 09

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV107-13

NEA ID:

_____\

AB02077

MATRIX:

FISH

DATE SAMPLED: 4/14/98

DATE RECEIVED:

4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

11078

CUSTOMER PO:

N/A

LAB ELAP#

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQI.	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polyc	hlorinated Biphenyls					
Aroclor 1016	ND	0 448	μg/g	4/30/98		
Aroclor 1221	ND	0 448	μg/g	4/30/98		
Aroclor 1232	ND	0 448	μg/g	4/30/98		
Aroclor 1242	ND	0 448	μg/g	4/30/98		
Aroclor 1248	ND	0 448	μg/g	4/30/98		
Aroclor 1254	3 42	0 448	μg/g	4/30/98		
Aroclor 1260	0 662	0 448	μg/g	4/30/98		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

4 08

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-15

NEA ID:

AB02130

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ited Biphenyls			· · · · · · · · · · · · · · · · · · ·	
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 2 31 0 434	0 224 0 224 0 224 0 224 0 224 0 224 0 224		5/7/98 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98	
Total PCB Amount > Reporting Limit	t 2 74		. 00		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT, JIM ORR

CUSTOMER ID:

SV107-16

NEA ID.

AB02129

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls	·			
Aroclor 1016	ND	0 224	μg/g	5/7/98	
Aroclor 1221	ND	0 224	μg/g	5/7/98	
Aroclor 1232	ND	0 224	μg/g	5/7/98	
Aroclor 1242	ND	0 224	μg/g	5/7/98	
Aroclor 1248	ND	0 224	μg/g	5/7/98	
Aroclor 1254	2 85	0 224	μg/g	5/7/98	
Aroclor 1260	0 539	0 224	μg/g	5/7/98	
T-4-1 DOD A A	2.20				

Total PCB Amount > Reporting Limit

3 39

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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> **CERTIFICATE OF ANALYSIS** 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228**

BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-17

NEAID:

AB02131

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 1100

PROJECT.

4517, SCHLUM

5/1/98

5/1/98

5/1/98

5/1/98

5/1/98

5/1/98

5/1/98

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

PARAMETER PERFORMED

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

N/A

SW-846 Method 8082, Polychlorinated Biphenyls

LAB ELAP #:

UNITS

μg/g

μg/g

μg/g

μg/g

μg/g

μg/g

μg/g

POL

0 784

0 784

0 784

0 784

0 784

0 784

0 784

11078

DATE TESTED **FLAGS**

Total PCB Amount > Reporting Limit

1 06 638

RESULTS

ND

ND

ND

ND

ND

5 32

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-18

NEA ID:

AB02187

MATRIX:

FISH

DATE SAMPLED: 4/16/98

16/98 **TIME:** N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS **PQL** UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/5/98 Aroclor 1016 ND 0 448 μg/g Aroclor 1221 ND 0 448 5/5/98 μg/g Aroclor 1232 ND 0 448 5/5/98 μg/g Aroclor 1242 0 448 ND μg/g 5/5/98 Aroclor 1248 ND 0 448 5/5/98 $\mu g/g$ Aroclor 1254 0 448 5/5/98 4 39 μg/g Aroclor 1260 0.983 0.448 5/5/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

5 3 7

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-19

NEA ID:

AB02188

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

POL PARAMETER PERFORMED RESULTS UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 0 896 Aroclor 1016 ND 5/5/98 μg/g Aroclor 1221 ND · 0.896 5/5/98 μg/g Aroclor 1232 0 896 ND րց/ց 5/5/98 0 896 Aroclor 1242 ND 5/5/98 μg/g Aroclor 1248 0 896 ND μg/g 5/5/98 Aroclor 1254 108 0 896 5/5/98 րց/ց Aroclor 1260 190 0 896 5/5/98 μg/g

Total PCB Amount > Reporting Limit

12 7

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT, JIM ORR

CUSTOMER ID:

SV107-20

NEA ID:

AB02189

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 896 5/6/98 μg/g Aroclor 1221 0 896 ND 5/6/98 μg/g Aroclor 1232 ND 0 896 μg/g 5/6/98 Aroclor 1242 0 896 5/6/98 ND μg/g ND 0 896 5/6/98 Aroclor 1248 $\mu g/g$ Aroclor 1254 9 50 0 896 5/6/98 μg/g 0 896 Aroclor 1260 1 42 5/6/98 μg/g

Total PCB Amount > Reporting Limit

109

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-21

NEA ID:

AB02190

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE FESTED	FLAGS
SW-846 Method 8082, Polych	lorinated Biphenyls				
Aroclor 1016	ND	1 12	μg/g	5/6/98	
Aroclor 1221	ND	1 12	μg/g	5/6/98	
Aroclor 1232	ND	1 12	μg/g	5/6/98	
Aroclor 1242	ND	1 12	μg/g	5/6/98	
Aroclor 1248	ND	1 12	μg/g	5/6/98	
Aroclor 1254	14 9	1 12	μg/g	5/6/98	
Aroclor 1260	2 27	1 12	μց/ց	5/6/98	

Total PCB Amount > Reporting Limit

172

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228** BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-22

NEA ID:

AB02191

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinat	ed Biphenyls		-		
Aroclor 1016	ND	0 336	μg/g	5/6/98	
Aroclor 1221	ND	0 336	μg/g	5/6/98	
Aroclor 1232	ND	0 336	μg/g	5/6/98	
Aroclor 1242	ND	0 336	րց/ց	5/6/98	
Aroclor 1248	ND	0 336	μ <u>g</u> /g	5/6/98	
Aroclor 1254	2 85	0 336	μg/g	5/6/98	
Aroclor 1260	1 06	0 336	μg/g	5/6/98	
Total PCB Amount > Reporting Limit	3 91				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR

CUSTOMER ID:

SV107-23

NEA ID:

AB02192

MATRIX:

FISH

DATE SAMPLED: 4/16/98

1117100

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT

4517, SCHLUM

N/A

SAMPLED BY: CUSTOMER PO: N/A N/A LOCATION· LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	anated Biphenyls				
Aroclo, 1016	ND	0 448	μg/g	5/7/98	
Aroclor 1221	ND	0 448	μg/g	5/7/98	
Aroclor 1232	ND	0 448	μg/g	5/7/98	
Aroclor 1242	ND	0 448	μg/g	5/7/98	
Aroclor 1248	ND	0 448	μg/g	5/7/98	
Aroclor 1254	3 37	0 448	μg/g	5/7/98	
Aroclor 1260	0 463	0 448	μg/g	5/7/98	
Total PCB Amount > Reporting L	ımıt 3 83				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-24

NEA ID:

AB02369

MATRIX:

FISH

DATE SAMPLED: 4/22/98

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 116 μg/g 5/16/98 Aroclor 1221 ND 0 116 5/16/98 μg/g Aroclor 1232 ND 0 116 5/16/98 μg/g Aroclor 1242 ND 0 116 μg/g 5/16/98 Aroclor 1248 ND 0116 μg/g 5/16/98 Aroclor 1254 2 02 0 116 μg/g 5/16/98 Aroclor 1260 0 663 0 116 5/16/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 68

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT, JIM ORR

CUSTOMER ID:

SV107-25

NEA ID.

AB02370

MATRIX:

FISH

DATE SAMPLED. 4/22/98

2/98 **TIME:** N/A

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJ

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls	-		·	
Aroclor 1016	ND	0 116	μg/g	5/16/98	
Aroclor 1221	ND	0 116	μg/g	5/16/98	
Aroclor 1232	ND	0 116	μg/g	5/16/98	
Aroclor 1242	ND	0 116	μg/g	5/16/98	
Aroclor 1248	ND	0 116	μg/g	5/16/98	
Aroclor 1254	0 823	0 116	μg/g	5/16/98	
Aroclor 1260	0 292	0 116	μg/g	5/16/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1.12

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV107-26

NEA ID:

AB02350

MATRIX:

FISH

DATE SAMPLED: 4/22/98

2/98 **TIME:** N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

SAMPLED BY.

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	inated Biphenyls					
Aroclor 1016 Aroclor 1221 Aroclor 1232	ND ND ND	0 116 0 116 0 116	μg/g μg/g	5/11/98 5/11/98 5/11/98		
Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND	0 116 0 116	և ն /ն πն/ն πն/ն	5/11/98 5/11/98		
Aroclor 1254 Aroclor 1260	1 03 0 485	0 116 0 116	μg/g μg/g	5/11/98 5/11/98		
Total PCB Amount > Reporting L	ımıt 151					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV107-27

NEA ID

AB02351

MATRIX ·

FISH

DATE SAMPLED: 4/22/98

M MM MM A

TIME. N/A

DATE RECEIVED:

4/24/98

TIME: 930 PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				1 / 1 = 1
Aroclor 1016	ND	0 115	μg/g	5/14/98	
Aroclor 1221	ND	0 115	μg/g	5/14/98	
Aroclor 1232	ND	0.115	μg/g	5/14/98	
Aroclor 1242	ND	0 115	μg/g	5/14/98	
Aroclor 1248	ND	0 115	μg/g	5/14/98	
Aroclor 1254	131	0 115	μg/g	5/14/98	
Aroclor 1260	0 362	0 115	μg/g	5/14/98	
Total PCB Amount > Reporting L	ımıt ! 67				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/20/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV-107-28

NEA ID.

AB02437

MATRIX:

FISH

DATE SAMPLED: 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME. 1030

PROJECT:

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			·	
Aroclor 1016	ND	0 114	μg/g	5/16/98	
Aroclor 1221	ND	0 114	μg/g	5/16/98	
Aroclor 1232	ND	0 114	μg/g	5/16/98	
Aroclor 1242	ND	0 114	μg/g	5/16/98	
Aroclor 1248	ND	0 114	μg/g	5/16/98	
Aroclor 1254	0 733	0 114	μg/g	5/16/98	
Aroclor 1260	0 238	0 114	μg/g	5/16/98	
Total PCB Amount > Reporting Li	mit 0 971				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/20/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV-107-29

NEA ID:

AB02438

MATRIX:

FISH

DATE SAMPLED: 4/23/98

DATE RECEIVED:

4/30/98

TIME: 10 30

PROJECT:

4517, SCHLUM-1

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND ND 1 89	0 115 0 115 0 115 0 115 0 115 0 115	րձ/ձ hշ/ջ hշ/ջ hշ/ջ hշ/ջ	5/16/98 5/16/98 5/16/98 5/16/98 5/16/98	
Aroclor 1260 Total PCB Amount > Reporting Lim	0 567	0 115	μg/g	5/16/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-01

NEA ID

AB02052

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychloru	nated Biphenyls				· -
Aroclor 1016	ND	0 336	μg/g	4/29/98	
Aroclor 1221	ND	0 336	μg/g	4/29/98	
Aroclor 1232	ND	0 336	μg/g	4/29/98	
Aroclor 1242	ND	0 336	μg/g	4/29/98	
Aroclor 1248	ND	0 336	μg/g	4/29/98	
Aroclor 1254	3 77	0 336	μg/g	4/29/98	
Aroclor 1260	0 780	0 336	μg/g	4/29/98	
Total PCB Amount > Reporting Lin	nıt 4.55				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-02

NEA ID:

AB02053

MATRIX:

CICII

DATE SAMPLED: 4/14/98

1002033

FISH 4/16/98

Ditte

TIME. 945

4517, SCHLUM

TIME: N/A

DATE RECEIVED: SAMPLED BY:

N/A

PROJECT: LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				. _
Aroclor 1016	ND	0 336	μg/g	4/29/98	
Aroclor 1221	ND	0 336	μg/g	4/29/98	
Aroclor 1232	ND	0 336	μg/g	4/29/98	
Aroclor 1242	ND	0 336	μg/g	4/29/98	
Aroclor 1248	ND	0 336	μg/g	4/29/98	
Aroclor 1254	4 52	0 336	μg/g	4/29/98	
Aroclor 1260	0 754	0 336	μg/g	4/29/98	
Total PCB Amount > Reporting L	ımıt 5 27				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-03

NEA ID:

AB02054

MATRIX:

FISH

DATE SAMPLED. 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 0 224 4/28/98 Aroclor 1016 μg/g Aroclor 1221 ND 0 224 4/28/98 μg/g Aroclor 1232 ND 0 224 4/28/98 μg/g Aroclor 1242 ND 0 224 4/28/98 μg/g Aroclor 1248 ND 0 224 4/28/98 μg/g 4/28/98 Aroclor 1254 3 50 0 224 μg/g Aroclor 1260 0 629 0 224 μg/g 4/28/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes Jowest analyte concentration reportable for the sample

4 13

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AND A

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-04

NEA ID:

AB02055

MATRIX:

FISH

DATE SAMPLED: 4/14/98

/14/98 **TIME:** N/A

DATE RECEIVED:

4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 4/29/98 μg/g Aroclor 1221 0 224 4/29/98 ND μg/g Aroclor 1232 ND 0 224 4/29/98 μg/g 0 224 4/29/98 Aroclor 1242 ND μg/g Aroclor 1248 ND 0 224 μg/g 4/29/98 Aroclor 1254 0 224 4/29/98 3 36 μg/g Aroclor 1260 0 756 0 224 μg/g 4/29/98 Total PCB Amount > Reporting Limit 4 12

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Environmental Lab Services

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV106-05

NEA ID.

AB02056

MATRIX:

FISH

DATE SAMPLED: 4/14/98

DATE RECEIVED:

4/16/98

TIME: 9 45 PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 224	μg/g	4/28/98	
Aroclor 1221	ND	0 224	μg/g	4/28/98	
Aroclor 1232	ND	0 224	μg/g	4/28/98	
Aroclor 1242	ND	0 224	μg/g	4/28/98	
Aroclor 1248	ND	0 224	μg/g	4/28/98	
Aroclor 1254	3 95	0 224	μg/g	4/28/98	
Aroclor 1260	0 639	0 224	μg/g	4/28/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

4 59

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID.

SV106-06

NEA ID:

AB02057

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO-

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 336	μg/g	4/29/98	
Aroclor 1221	ND	0 336	μg/g	4/29/98	
Aroclor 1232	ND	0 336	μg/g	4/29/98	
Aroclor 1242	ND	0 336	μg/g	4/29/98	
Aroclor 1248	ND	0 336	μg/g	4/29/98	
Aroclor 1254	3 15	0 336	μg/g	4/29/98	
Aroclor 1260	1 39	0 336	μg/g	4/29/98	
Total PCB Amount > Reporting L	ımıt 4.54				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV106-07

NEA ID:

AB02058

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 945 PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychl	orinated Biphenyls					
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 1 95 0 301	0 224 0 224 0 224 0 224 0 224 0 224 0 224	កជិ/ជិ កធិ/ទិ កធិ/ទិ កធិ/ជិ កធិ/និ	4/29/98 4/29/98 4/29/98 4/29/98 4/29/98 4/29/98 4/29/98		
Total PCB Amount > Reporting	Limit 2 25					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-08

NEA ID:

AB02059

MATRIX:

FISH

DATE SAMPLED: 4/14/98

/98 **TIME:** N/A

DATE RECEIVED:

4/16/98

TIME: 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 4/29/98 μg/g Aroclor 1221 ND 0 224 4/29/98 μg/g Aroclor 1232 ND 0 224 4/29/98 μg/g Aroclor 1242 ND 0 224 4/29/98 μg/g Aroclor 1248 0 224 ND μg/g 4/29/98 Aroclor 1254 2 98 0 224 4/29/98 μg/g Aroclor 1260 0 702 0 224 μg/g 4/29/98 Total PCB Amount > Reporting Limit 3 68

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/13/98

ERM SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-09

NEA ID:

AB02060

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	ted Biphenyls					
Aroclor 1016	ND	0 224	μg/g	5/8/98		
Aroclor 1221	ND	0 224	μg/g	5/8/98		
Aroclor 1232	ND	0 224	μg/g	5/8/98		
Aroclor 1242	ND	0 224	μg/g	5/8/98		
Aroclor 1248	ND	0 224	μg/g	5/8/98		
Aroclor 1254	3 17	0 224	μg/g	5/8/98		
Aroclor 1260	0 646	0 224	μg/g	5/8/98		
Total PCB Amount > Reporting Limit	t 3 82					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/13/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR**

CUSTOMER ID:

SV106-09D

NEA ID:

AB02428

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	unated Biphenyls				- ·
Aroclor 1016	ND	0 224	μg/g	5/8/98	
Aroclor 1221	ND	0 224	μg/g	5/8/98	
Aroclor 1232	ND	0 224	μg/g	5/8/98	
Aroclor 1242	ND	0 224	μg/g	5/8/98	
Aroclor 1248	ND	0 224	μg/g	5/8/98	
Aroclor 1254	3 88	0 224	μg/g	5/8/98	
Aroclor 1260	0 752	0 224	μg/g	5/8/98	
Total PCB Amount > Reporting L	ımıt 4 63				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL , AND MARKET

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-10

NEA ID:

AB02061

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	0 224 0 224 0 224 0 224 0 224	րձ/ձ Իձ/ձ Իձ/ձ Իճ/ձ	4/29/98 4/29/98 4/29/98 4/29/98 4/29/98	
Aroclor 1254 Aroclor 1260 Total PCB Amount > Reporting L	3 17 1 41 Jimit 4 58	0 224 0 224	μg/g μg/g	4/29/98 4/29/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-11

NEA ID:

AB02062

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 4/30/98 μg/g Aroclor 1221 ND 0 224 4/30/98 μg/g Aroclor 1232 ND 0 224 4/30/98 μg/g Aroclor 1242 ND 0 224 4/30/98 μg/g Aroclor 1248 ND 0 224 4/30/98 μg/g Aroclor 1254 2 56 0 224 4/30/98 μg/g Aroclor 1260 0 451 0 224 μg/g 4/30/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 01

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV106-12

NEA ID:

AB02063

MATRIX:

FISH

DATE SAMPLED: 4/14/98

TIME: N/A

DATE RECEIVED:

4/16/98

TIME: 9 45

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

CUSTOMER PO:

N/A

LAB ELAP#

N/A 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	orinated Biphenyls					
Aroclor 1016	ND	0 336	μg/g	4/30/98		
Aroclor 1221	ND	0 336	μg/g	4/30/98		
Aroclor 1232	ND	0 336	μg/g	4/30/98		
Aroclor 1242	ND	0 336	μg/g	4/30/98		
Aroclor 1248	ND	0 336	μg/g	4/30/98		
Aroclor 1254	3 66	0 336	μg/g	4/30/98		
Aroclor 1260	0 643	0 336	μg/g	4/30/98		

Total PCB Amount > Reporting Limit 4 3

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/7/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-13

NEA ID:

AB02064

MATRIX:

FISH

DATE SAMPLED: 4/14/98

1/98 **TIME:** N/A

DATE RECEIVED:

4/16/98

TIME. 945

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	d Biphenyls				
Aroclor 1016	ND	0 112	μg/g	4/30/98	
Aroclor 1221	ND	0 112	μg/g	4/30/98	
Aroclor 1232	ND	0 112	μg/g	4/30/98	
Aroclor 1242	ND	0 112	μg/g	4/30/98	
Aroclor 1248	ND	0 112	μg/g	4/30/98	
Aroclor 1254	0 658	0 112	μg/g	4/30/98	
Aroclor 1260	ND	0 112	μg/g	4/30/98	
Total PCB Amount > Reporting Limit	0 658				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV106-14

NEA ID:

AB02127

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

CUSTOMER PO:

4/18/98

TIME. 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A N/A LOCATION.

LAB ELAP #:

N/A 11078

PARAMETER PERFORMED

RESULTS

PQL UNITS

DATE TESTED

FLAGS

SW-846	Method	8082.	Polychlorinated	Biphenyls

A11016	ND	0.112	. 1.	1/20/00
Aroclor 1016	ND	0 112	րց/ց	4/30/98
Aroclor 1221	ND	0 112	μg/g	4/30/98
Aroclor 1232	ND	0 112	μg/g	4/30/98
Aroclor 1242	ND	0 112	μg/g	4/30/98
Aroclor 1248	ND	0 112	μg/g	4/30/98
Aroclor 1254	1 04	0 112	μg/g	4/30/98
Aroclor 1260	0 153	0 112	μg/g	4/30/98

Total PCB Amount > Reporting Limit

1 19

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID.

SV106-16

NEA ID:

AB02183

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PEI	RFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method	i 8082, Polychlos	rinated Biphenyls		-		"-
Aroclor 1016		ND	0 112	μg/g	5/5/98	
Aroclor 1221		ND	0 112	μg/g	5/5/98	
Aroclor 1232		ND	0 112	μg/g	5/5/98	
Aroclor 1242		ND	0 112	μg/g	5/5/98	
Aroclor 1248		ND	0 112	μց/ց	5/5/98	
Aroclor 1254		1 13	0 112	μg/g	5/5/98	
Aroclor 1260		0 211	0 112	μg/g	5/5/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 34

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-17

NEA ID.

AB02184

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 1100

PROJECT.

4517, SCHLUM

SAMPLED BY:

CUSTOMER PO:

N/A N/A LOCATION:
LAB ELAP #:

N/A 11078

PARAMETER PERFORMED

RESULTS

UNITS

PQL

DATE TESTED

FLAGS

SW-846 Method 8	182 Polych	lorinated Ri	nhenvis
SW-040 Michiga 6	Joz, i diyen	ioi mateu bi	puchyis

Aroclor 1016	ND	0 112	μg/g	5/5/98
Aroclor 1221	ND	0 112	μg/g	5/5/98
Aroclor 1232	ND	0 112	μg/g	5/5/98
Aroclor 1242	ND	0 112	μg/g	5/5/98
Aroclor 1248	ND	0 112	μg/g	5/5/98
Aroclor 1254	1 22	0 112	μg/g	5/5/98
Aroclor 1260	0 251	0 112	μg/g	5/5/98

Total PCB Amount > Reporting Limit

1 47

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV106-18

NEA ID

AB02185

MATRIX:

DATE SAMPLED: 4/16/98

4517, SCHLUM

5/5/98

5/5/98

DATE RECEIVED:

Aroclor 1254

Aroclor 1260

FISH 4/18/98

TIME: 11 00

PROJECT:

μg/g

μg/g

LAB ELAP#:

TIME: N/A

SAMPLED BY:

CUSTOMER PO:

N/A

N/A

LOCATION:

N/A

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls					
Aroclor 1016	ND	0 784	μg/g	5/5/98		
Aroclor 1221	ND	0 784	μg/g	5/5/98		
Aroclor 1232	ND	0 784	μg/g	5/5/98		
Aroclor 1242	ND	0 784	μg/g	5/5/98		
Aroclor 1248	ND	0 784	μg/g	5/5/98		

0 784

0 784

Total PCB Amount > Reporting Limit

1 56 103

8 78

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E Wagner Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-19

NEA ID:

AB02186

MATRIX:

FISH

DATE SAMPLED: 4/16/98

11002100

DATE RECEIVED.

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Pol	ychlorinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/5/98	
Aroclor 1221	ND	0 112	μg/g	5/5/98	
Aroclor 1232	ND	0 112	μg/g	5/5/98	
Aroclor 1242	ND	0 112	μg/g	5/5/98	
Aroclor 1248	ND	0 112	μg/g	5/5/98	
Aroclor 1254	0 854	0 112	μg/g	5/5/98	
Aroclor 1260	0 242	0 112	μg/g	5/5/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1.1

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Total PCB Amount > Reporting Limit

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> **CERTIFICATE OF ANALYSIS** 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV106-20

NEA ID.

AB02352

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	nated Biphenyls					
Aroclor 1016	ND	0 231	μg/g	5/16/98		
Aroclor 1221	ND	0 231	μg/g	5/16/98		
Aroclor 1232	ND	0 231	μg/g	5/16/98		
Aroclor 1242	ND	0 231	μg/g	5/16/98		
Aroclor 1248	ND	0 23 1	μg/g	5/16/98		
Aroclor 1254	2 63	0 231	μg/g	5/16/98		
Aroclor 1260	0 611	0 231	μg/g	5/16/98		
Total PCB Amount > Reporting Lin	nıt 3 24					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV106-21

NEA ID:

AB02353

MATRIX:

FISH

DATE SAMPLED: 4/22/98

22/98 TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DA FE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls					
Aroclor 1016	ND	0 117	μg/g	5/15/98		
Aroclor 1221	ND	0 117	μg/g	5/15/98		
Aroclor 1232	ND	0 117	μg/g	5/15/98		
Aroclor 1242	ND	0 117	μg/g	5/15/98		
Aroclor 1248	ND	0 117	μg/g	5/15/98		
Aroclor 1254	1 93	0 117	μg/g	5/15/98		
Aroclor 1260	0 605	0 117	μg/g	5/15/98		
Total PCB Amount > Reporting Lim	ıt 2 54					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV106-22

NEA ID:

AB02354

MATRIX:

DATE SAMPLED: 4/22/98

M. M. M. M.

DATE RECEIVED:

FISH 4/24/98

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

CUSTOMER PO:

N/A

LAB ELAP #:

N/A 11078

PARAMETER PERFORMED RESULTS PQL

UNITS DATE TESTED

FLAGS

TIME: N/A

SW-846 Method 8082, Polychlorinated Biphenyls									
Aroclor 1016	ND	0 574	μg/g	5/16/98					
Aroclor 1221	ND	0 574	μg/g	5/16/98					
Aroclor 1232	ND	0 574	μg/g	5/16/98					
Aroclor 1242	ND	0 574	μg/g	5/16/98					
Aroclor 1248	ND	0 574	μg/g	5/16/98					
Aroclor 1254	6 1 1	0 574	μg/g	5/16/98					
Aroclor 1260	0 950	0 574	μg/g	5/16/98					

TIME: 930

Total PCB Amount > Reporting Limit

7 06

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

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ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV106-23

NEA ID:

AB02355

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930 PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

11078

CUSTOMER PO:

N/A

LAB ELAP #:

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			· · · · · · · · · · · · · · · · · · ·	
Aroclor 1016	ND	0 23 1	μg/g	5/16/98	
Aroclor 1221	ND	0 23 1	μg/ <u>g</u>	5/16/98	
Aroclor 1232	ND	0 23 1	μg/g	5/16/98	
Aroclor 1242	ND	0 23 1	μg/g	5/16/98	
Aroclor 1248	ND	0 23 1	μ <u>g</u> /g	5/16/98	
Aroclor 1254	2 65	0 23 1	μg/g	5/16/98	
Aroclor 1260	0 437	0 231	μg/g	5/16/98	
Total PCB Amount > Reporting Li	ımıt 3 09				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/20/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV-106-24

NEA ID:

AB02440

MATRIX:

FISH

DATE SAMPLED: 4/23/98

1002770

DATE RECEIVED:

4/30/98

TIME: 10 30 PROJECT:

4517. SCHLUM-1

TIME: N/A

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	orinated Biphenyls				
Aroclor 1016	ND	0 117	μg/g	5/16/98	
Aroclor 1221	ND	0 117	hā\ā	5/16/98	
Aroclor 1232	ND	0 117	μg/g	5/16/98	
Aroclor 1242	ND	0 117	μg/g	5/16/98	
Aroclor 1248	ND	0 117	μց/ց	5/16/98	
Aroclor 1254	0 853	0 117	μg/g	5/16/98	
Aroclor 1260	0 245	0 117	μg/g	5/16/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 5/20/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV-106-25

NEA ID:

AB02441

MATRIX:

FISH

DATE SAMPLED: 4/23/98

TIME: N/A

DATE RECEIVED:

4/30/98

TIME: 1030

PROJECT:

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	ated Biphenyls					
Aroclor 1016	ND	0 116	μg/g	5/16/98		
Aroclor 1221	ND	0 116	μg/g	5/16/98		
Aroclor 1232	ND	0 116	μg/g	5/16/98		
Aroclor 1242	ND	0 116	μg/g	5/16/98		
Aroclor 1248	ND	0 116	μg/g	5/16/98		
Aroclor 1254	1 19	0 116	μ <u>ց</u> /g	5/16/98		
Aroclor 1260	0 310	0 116	μg/g	5/16/98		
Total PCB Amount > Reporting Lin	nt 1.5					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-01

NEA ID:

AB02132

MATRIX:

CICII

DATE SAMPLED: 4/15/98

DATE RECEIVED:

FISH 4/18/98

TIME. 11 00 I

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION.

,

CUSTOMER PO:

N/A

LAB ELAP #:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/1/98	
Aroclor 1221	ND	0 112	μg/g	5/1/98	
Aroclor 1232	ND	0 112	μg/g	5/1/98	
Aroclor 1242	ND	0 112	μg/g	5/1/98	
Aroclor 1248	ND	0 112	μg/g	5/1/98	
Aroclor 1254	0 916	0 112	μg/g	5/1/98	
Aroclor 1260	0 114	0 112	μg/g	5/1/98	
Total PCB Amount > Reporting L	imit 1 03				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-02

NEA ID:

AB02133

MATRIX:

FISH

DATE SAMPLED: 4/15/98

.

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 5/1/98 ND 0 224 μg/g Aroclor 1221 ND 0 224 μg/g 5/1/98 Aroclor 1232 ND 0 224 5/1/98 μg/g Aroclor 1242 ND 0 224 5/1/98 μg/g Aroclor 1248 ND 0 224 5/1/98 μg/g Aroclor 1254 2 13 0 224 5/1/98 μg/g Aroclor 1260 0 265 0 224 μg/g 5/1/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

24

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL , AMA

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-03

NEA ID:

AB02134

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE FESTED	FLAGS
SW-846 Method 8082, Polych	lorinated Biphenyls			<u> </u>	
Aroclor 1016	ND	0 112	μg/g	5/1/98	
Aroclor 1221	ND	0 112	μg/g	5/1/98	
Aroclor 1232	ND	0 112	μg/g	5/1/98	
Aroclor 1242	ND	0 112	μg/g	5/1/98	
Aroclor 1248	ND	0 112	μg/g	5/1/98	
Aroclor 1254	1 47	0 112	μg/g	5/1/98	
Aroclor 1260	0 171	0 112	μg/g	5/1/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 64

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-04

NEA ID:

AB02135

MATRIX:

FISH

DATE SAMPLED: 4/15/98

8 TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls	· 			
Aroclor 1016	ND	0 224	μg/g	5/1/98	
Aroclor 1221	ND	0 224	μg/g	5/1/98	
Aroclor 1232	ND	0 224	μg/g	5/1/98	
Aroclor 1242	ND	0 224	μg/g	5/1/98	
Aroclor 1248	ND	0 224	μg/g	5/1/98	
Aroclor 1254	1 65	0 224	μg/g	5/1/98	
Aroclor 1260	0 254	0 224	μg/g	5/1/98	
Total PCB Amount > Reporting L	limit 19				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-05

NEA ID:

AB02136

MATRIX.

FISH

DATE SAMPLED. 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT

SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

RESULTS PQL UNITS DATE TESTED **FLAGS** PARAMETER PERFORMED SW-846 Method 8082, Polychlorinated Biphenyls 0.112 5/1/98 Aroclor 1016 ND μg/g Aroclor 1221 ND 0 112 5/1/98 μg/g Aroclor 1232 5/1/98 0 112 ND $\mu g/g$ Aroclor 1242 0.112 5/1/98 ND μg/g Aroclor 1248 0.112 5/1/98 ND րն/ն Aroclor 1254 1 10 0.112μg/g 5/1/98 5/1/98 Aroclor 1260 0 135 0 112 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 24

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

NORTHEAST ANALYTICAL _______\\

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV532-06

NEA ID:

AB02137

MATRIX ·

FISH 4/18/98

TIME. 1100

PROJECT.

DATE SAMPLED: 4/15/98

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS FLAGS DATE TESTED SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 336 5/1/98 μg/g Aroclor 1221 ND 0 336 5/1/98 μg/g Aroclor 1232 ND 0 336 5/1/98 μg/g Aroclor 1242 ND 0 336 μg/g 5/1/98 Aroclor 1248 ND 0 336 μg/g 5/1/98 Aroclor 1254 251 0 336 5/1/98 μg/g Aroclor 1260 5/1/98 0 677 0 336 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 19

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-07

NEA ID:

AB02138

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO: N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	_
SW-846 Method 8082, Polychlorinat	ed Biphenyls	<u>—</u>	·			•
Aroclor 1016	ND	0 336	μg/g	5/4/98		
Aroclor 1221	ND	0 336	μg/g	5/4/98		
Aroclor 1232	ND	0 336	μg/g	5/4/98		
Aroclor 1242	ND	0 336	μg/g	5/4/98		
Aroclor 1248	ND	0 336	μg/g	5/4/98		
Aroclor 1254	3 14	0 336	μg/g	5/4/98		
Aroclor 1260	0 876	0 336	μg/g	5/4/98		
Total PCB Amount > Reporting Limit	4 02					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-08

NEA ID:

AB02139

MATRIX:

FISH

DATE SAMPLED 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO-

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polych	lorinated Biphenyls					
Aroclor 1016	ND	0 112	μg/g	5/1/98		
Aroclor 1221	ND	0 112	μg/g	5/1/98		
Aroclor 1232	ND	0 112	μg/g	5/1/98		
Aroclor 1242	ND	0 112	μg/g	5/1/98		
Aroclor 1248	ND	0 112	μg/g	5/1/98		
Aroclor 1254	0 894	0 112	μ <u>ց</u> /ց	5/1/98		
Aroclor 1260	0 373	0 112	μg/g	5/1/98		
Total PCB Amount > Reporting	Limit 1 27					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID.

SV532-09

NEA ID:

AB02348

MATRIX:

FISH

DATE SAMPLED: 4/22/98

2/98 **TIME:** N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	ted Biphenyls					
Aroclor 1016	ND	0 117	μg/g	5/10/98		
Aroclor 1221	ND	0 117	μg/g	5/10/98		
Aroclor 1232	ND	0 117	μg/g	5/10/98		
Aroclor 1242	ND	0 117	μg/g	5/10/98		
Aroclor 1248	ND	0 117	μg/g	5/10/98		
Aroclor 1254	0 612	0 117	μg/g	5/10/98		
Aroclor 1260	0 194	0 117	μg/g	5/10/98		
Total PCB Amount > Reporting Limit	0 806					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV532-10

NEA ID:

AB02349

MATRIX:

FISH

DATE SAMPLED: 4/22/98

4/22/98 TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 9 30

PROJECT

4517, SCHLUM

SAMPLED BY.

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 0 117 5/11/98 Aroclor 1016 ND μg/g Aroclor 1221 ND 0 117 5/11/98 μg/g Aroclor 1232 ND 0 117 5/11/98 μg/g Aroclor 1242 5/11/98 ND 0 117 μg/g Aroclor 1248 ND 0 117 μg/g 5/11/98 Aroclor 1254 0 117 5/11/98 0 776 μg/g Aroclor 1260 0 364 0 117 μg/g 5/11/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 14

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-11

NEA ID:

AB02142

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 μg/g 5/4/98 Aroclor 1221 ND 0 224 5/4/98 μg/g Aroclor 1232 ND 0 224 5/4/98 μg/g Aroclor 1242 0 224 ND 5/4/98 μg/g Aroclor 1248 ND 0 224 5/4/98 μg/g Aroclor 1254 0.224 5/4/98 301 μg/g Aroclor 1260 0 756 0 224 5/4/98 μg/g Total PCB Amount > Reporting Limit 3 77

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-11D

M MAN AMA

AB02431

MATRIX:

NEA ID:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

CUSTOMER PO:

N/A N/A

LOCATION: LAB ELAP#. N/A 11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 5/4/98 μg/g Aroclor 1221 ND 0 224 5/4/98 μg/g Aroclor 1232 5/4/98 ND 0 224 μg/g Aroclor 1242 ND 0 224 μg/g 5/4/98 Aroclor 1248 ND 0 224 μg/g 5/4/98 Aroclor 1254 0 224 5/4/98 2 86 μg/g Aroclor 1260 0 690 0 224 μg/g 5/4/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 55

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc.

NORTHEAST ANALYTICAL AND MAN A

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-12

NEA ID:

AB02143

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 5/2/98 μg/g Aroclor 1221 0 112 5/2/98 ND μg/g Aroclor 1232 ND 0.112 5/2/98 μg/g Aroclor 1242 0 112 5/2/98 ND μg/g Aroclor 1248 ND 0.112 μg/g 5/2/98 Aroclor 1254 1 10 0 112 5/2/98 μg/g Aroclor 1260 0 664 0 112 5/2/98 μg/g 176 Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-13

NEA ID:

AB02144

MATRIX:

FISH 4/18/98

TIME: 11 00

PROJECT:

DATE SAMPLED: 4/15/98

4517, SCHLUM

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS UNITS POL **FLAGS** DATE TESTED SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 5/2/98 μg/g Aroclor 1221 ND 0 224 5/2/98 μg/g Aroclor 1232 ND 0 224 5/2/98 μg/g Aroclor 1242 ND 0 224 5/2/98 μg/g Aroclor 1248 ND 0 224 5/2/98 μg/g Aroclor 1254 3 21 5/2/98 0 224 μg/g Aroclor 1260 0 657 0 224 5/2/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 87

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-14

NEA ID:

AB02145

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 5/4/98 ND 0 336 μg/g Aroclor 1221 0 336 ND 5/4/98 μg/g Aroclor 1232 ND 0 336 5/4/98 μg/g Aroclor 1242 ND 0 336 μg/g 5/4/98 Aroclor 1248 ND 0 336 5/4/98 μg/g Aroclor 1254 3 10 0 336 5/4/98 μg/g Aroclor 1260 0 645 0 336 5/4/98 μg/g

Total PCB Amount > Reporting Limit

3 75

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Environmental Lab Services

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV532-15

NEA ID:

AB02146

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED:

4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 5/2/98 μg/g ND Aroclor 1221 0 112 5/2/98 μg/g Aroclor 1232 5/2/98 ND 0 112 μg/g Aroclor 1242 ND 0.112 5/2/98 μg/g Aroclor 1248 ND 0 112 μg/g 5/2/98 Aroclor 1254 1 72 0.112 5/2/98 μg/g Aroclor 1260 0 444 0.112 μg/g 5/2/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 16

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-16

NEA ID:

PQL

AB02147

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

DATE TESTED

SAMPLED BY:

N/A

LOCATION.

N/A

11078

CUSTOMER PO:

PARAMETER PERFORMED

N/A

LAB ELAP#.

UNITS

FLAGS

TIME: N/A

SW-846 Method 8082,	Polychlorinated Biphenyls
Araclar 1016	ND

Aroclor 1016	ND	0 224	μg/g	5/4/98
Aroclor 1221	ND	0 224	μg/g	5/4/98
Aroclor 1232	ND	0 224	μg/g	5/4/98
Aroclor 1242	ND	0 224	μg/g	5/4/98
Aroclor 1248	ND	0 224	μg/g	5/4/98
Aroclor 1254	2 77	0 224	μ <u>g</u> /g	5/4/98
Aroclor 1260	0 775	0 224	րց/ց	5/4/98

RESULTS

Total PCB Amount > Reporting Limit

3 54

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV532-17

NEA ID:

AB02148

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO-

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 μg/g 5/4/98 Aroclor 1221 ND 0 224 5/4/98 μg/g Aroclor 1232 ND 0 224 5/4/98 μg/g Aroclor 1242 ND 0 224 5/4/98 µg/g Aroclor 1248 ND 0 224 5/4/98 μg/g Aroclor 1254 0 224 5/4/98 2 72 μg/g Aroclor 1260 0.551 0 224 μg/g 5/4/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

3 27

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV532-18

NEA ID:

AB02151

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO: N/A LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 224	μg/g	5/2/98	
Aroclor 1221	ND	0 224	μg/g	5/2/98	
Aroclor 1232	ND	0 224	μg/g	5/2/98	
Aroclor 1242	ND	0 224	μg/g	5/2/98	
Aroclor 1248	ND	0 224	μg/g	5/2/98	
Aroclor 1254	0 897	0 224	μg/g	5/2/98	
Aroclor 1260	0 347	0 224	μg/g	5/2/98	
Total PCB Amount > Reporting L	imit 124				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-19

NEA ID:

AB02152

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED

4/18/98

TIME: 1100

PROJECT.

4517, SCHLUM

SAMPLED BY.

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 5/2/98 μg/g Aroclor 1221 0 112 5/2/98 ND μg/g Aroclor 1232 0.112 ND 5/2/98 μg/g Aroclor 1242 ND 0 112 μg/g 5/2/98 Aroclor 1248 ND 0 112 5/2/98 $\mu g/g$ Aroclor 1254 0 538 0 112 μg/g 5/2/98 Aroclor 1260 0.190 0 112 5/2/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0 728

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-20

NEA ID:

AB02153

MATRIX.

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 115 5/7/98 μg/g Aroclor 1221 ND 0.115 5/7/98 μg/g Aroclor 1232 ND 0 115 5/7/98 μg/g Aroclor 1242 ND 0 115 5/7/98 μg/g Aroclor 1248 0.115 ND 5/7/98 μg/g Aroclor 1254 0.115 5/7/98 1 78 μg/g Aroclor 1260 0 305 0 115 μg/g 5/7/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 09

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-21

NEA ID:

AB02154

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULIS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenvis Aroclor 1016 ND 0 112 5/7/98 μg/g Aroclor 1221 ND 0.112 5/7/98 μg/g Aroclor 1232 ND 0 112 μg/g 5/7/98 Aroclor 1242 ND 0 112 μg/g 5/7/98 Aroclor 1248 ND 0 112 5/7/98 μg/g Aroclor 1254 0 112 0 568 5/7/98 μg/g Aroclor 1260 0 112 5/7/98 0 129 μg/g Total PCB Amount > Reporting Limit 0 697

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-22

NEA ID

AB02365

MATRIX:

FISH

DATE SAMPLED: 4/22/98

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO.

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	orinated Biphenyls					
Aroclor 1016	ND	0 118	րց/ց	5/15/98		
Aroclor 1221	ND	0 118	μg/g	5/15/98		
Aroclor 1232	ND	0 118	μg/g	5/15/98		
Aroclor 1242	ND	0 118	μg/g	5/15/98		
Aroclor 1248	ND	0 118	μg/g	5/15/98		
Aroclor 1254	0 526	0 118	μg/g	5/15/98		
Aroclor 1260	0 134	0 118	μg/g	5/15/98		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0 66

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR**

CUSTOMER ID:

SV532-23

NEA ID

AB02366

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A 11078

CUSTOMER PO:

N/A

LAB ELAP #

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polych	nlorinated Biphenyls				
Aroclor 1016	ND	0 114	μg/g	5/15/98	
Aroclor 1221	ND	0 114	μg/g	5/15/98	
Aroclor 1232	ND	0 114	μg/g	5/15/98	
Aroclor 1242	ND	0 114	μg/g	5/15/98	
Aroclor 1248	ND	0 114	μg/g	5/15/98	
Aroclor 1254	0 855	0 114	μ <u>g</u> /g	5/15/98	
Aroclor 1260	0 197	0 114	μg/g	5/15/98	
Taral DOD As a second	1 1.05				

Total PCB Amount > Reporting Limit 1 05

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL _____\\

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV532-24

NEA ID:

AB02193

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 0.112 5/7/98 ND μg/g Aroclor 1221 ND 0.112 5/7/98 μg/g Aroclor 1232 0 112 5/7/98 ND աց/ց Aroclor 1242 ND 0.112 μg/g 5/7/98 Aroclor 1248 0.112 5/7/98 ND µg/g Aroclor 1254 0.552 0.112 5/7/98 μg/g Aroclor 1260 0 129 0 112 5/7/98 μg/g Total PCB Amount > Reporting Limit 0 681

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV532-25

NEA ID:

AB02367

MATRIX:

FISH

DATE SAMPLED: 4/22/98

___M_M_

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 9 30

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	unated Biphenyls			-		
Aroclor 1016	ND	0 578	μg/g	5/18/98		
Aroclor 1221	ND	0 578	μg/g	5/18/98		
Aroclor 1232	ND	0 578	μg/g	5/18/98		
Aroclor 1242	ND	0 578	μg/g	5/18/98		
Aroclor 1248	ND	0 578	μg/g	5/18/98		
Aroclor 1254	6 66	0 578	μg/g	5/18/98		
Aroclor 1260	1 58	0 578	μg/g	5/18/98		
Total PCB Amount > Reporting L	ımıt 8 24					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AMA

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV532-26

NEA ID:

AB02368

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	orinated Biphenyls		· · · · · ·		
Aroclor 1016	ND	0 341	μg/g	5/18/98	
Aroclor 1221	ND	0 341	μg/g	5/18/98	
Aroclor 1232	ND	0 341	μg/g	5/18/98	
Aroclor 1242	ND	0 341	μg/g	5/18/98	
Aroclor 1248	ND	0 341	μg/g	5/18/98	
Aroclor 1254	3 58	0 341	μg/g	5/18/98	
Aroclor 1260	1 11	0 341	μg/g	5/18/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

4 69

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 5/20/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV-532-27

NEA ID:

AB02439

MATRIX:

FISH

DATE SAMPLED: 4/23/98

DATE RECEIVED:

4/30/98

TIME. 1030

PROJECT.

4517, SCHLUM-1

SAMPLED BY:

N/A

LOCATION:

N/A 11078

CUSTOMER PO:

N/A

LAB ELAP#.

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls		·		
Aroclor 1016	ND	0 116	μg/g	5/16/98	
Aroclor 1221	ND	0 116	μg/g	5/16/98	
Aroclor 1232	ND	0 116	μg/g	5/16/98	
Aroclor 1242	ND	0 116	μg/g	5/16/98	
Aroclor 1248	ND	0 116	μg/g	5/16/98	
Aroclor 1254	1 26	0 116	μg/g	5/16/98	
Aroclor 1260	0 691	0 116	μg/g	5/16/98	
Total PCB Amount > Reporting La	ımıt 1 95				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-01

NEA ID:

AB02157

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED.

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DA FE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 224	μg/g	5/2/98	
Aroclor 1221	ND	0 224	μg/g	5/2/98	
Aroclor 1232	ND	0 224	μg/g	5/2/98	
Aroclor 1242	ND	0 224	μg/g	5/2/98	
Aroclor 1248	ND	0 224	μg/g	5/2/98	
Aroclor 1254	0 987	0 224	μg/g	5/2/98	
Aroclor 1260	0 340	0 224	μg/g	5/2/98	
Total PCB Amount > Reporting L	Limit 1 33				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL . A MAIN

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-01D

NEA ID:

AB02433

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polyc	hlorinated Biphenyls				
Aroclor 1016	ND	0 224	μg/g	5/1/98	
Aroclor 1221	ND	0 224	μg/g	5/1/98	
Aroclor 1232	ND	0 224	μg/g	5/1/98	
Aroclor 1242	ND	0 224	μg/g	5/1/98	
Aroclor 1248	ND	0 224	μg/g	5/1/98	
Aroclor 1254	0 927	0 224	μg/g	5/1/98	
Aroclor 1260	0 317	0 224	μg/g	5/1/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 24

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

CUSTOMER ID:

SV535-02

NEA ID:

AB02158

4517, SCHLUM

MATRIX:

DATE SAMPLED: 4/15/98

DATE RECEIVED:

FISH

TIME: 11 00 PROJECT. TIME: N/A

SAMPLED BY:

4/18/98 N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls		· · · · · · · · · · · · · · · · · · ·		
Aroclor 1016	ND	0 112	μg/g	5/2/98	
Aroclor 1221	ND	0 112	μg/g	5/2/98	
Aroclor 1232	ND	0 112	μg/g	5/2/98	
Aroclor 1242	ND	0 112	μg/g	5/2/98	
Aroclor 1248	ND	0 112	μg/g	5/2/98	
Aroclor 1254	0 223	0 112	μg/g	5/2/98	
Aroclor 1260	0 126	0 112	μg/g	5/2/98	
Total PCB Amount > Reporting Lii	mit 0 349				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV535-03

NEA ID:

AB02159

MATRIX:

FISH

DATE SAMPLED: 4/15/98

1202.00

PROJECT

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

4/18/98 N/A

TIME: 11 00

N/A

CUSTOMER PO:

N/A

LOCATION:
LAB ELAP #:

11078

4517, SCHLUM

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinat	ed Biphenyls			•		
Aroclor 1016	ND	0 112	μg/g	5/2/98		
Aroclor 1221	ND	0 112	μg/g	5/2/98		
Aroclor 1232	ND	0 112	μg/g	5/2/98		
Aroclor 1242	ND	0 112	μg/g	5/2/98		
Aroclor 1248	ND	0 112	μg/g	5/2/98		
Aroclor 1254	0 656	0 112	μg/g	5/2/98		
Aroclor 1260	0 186	0 112	μg/g	5/2/98		
Total PCB Amount > Reporting Limit	0 842					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-04

NEA ID.

AB02160

MATRIX:

FISH

DATE SAMPLED: 4/15/98

4517, SCHLUM

UNITS

TIME: N/A

DATE RECEIVED

4/18/98

TIME: 11 00

PROJECT LOCATION:

N/A

SAMPLED BY: **CUSTOMER PO:** N/A N/A

LAB ELAP #:

11078

PARAMETER PERFORMED

RESULTS

PQL

DATE TESTED

FLAGS

SW-846	Method	8082	Polychlorinated	Rinhenvis

Aroclor 1016	ND	0 112	μց/ց	5/2/98
Aroclor 1221	ND	0 112	μg/g	5/2/98
Aroclor 1232	ND	0 112	μg/g	5/2/98
Aroclor 1242	ND	0 112	μg/g	5/2/98
Aroclor 1248	ND	0 112	μg/g	5/2/98
Aroclor 1254	1 29	0 112	μg/g	5/2/98
Aroclor 1260	0 363	0 112	μg/g	5/2/98

Total PCB Amount > Reporting Limit

1 65

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV535-05

NEA ID:

AB02161

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME, 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULIS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls	-			· · · · · · · · · · · · · · · · · · ·
Aroclor 1016	ND	0 112	μg/g	5/2/98	
Aroclor 1221	ND	0 112	μg/g	5/2/98	
Aroclor 1232	ND	0 112	μg/g	5/2/98	
Aroclor 1242	ND	0 112	μg/g	5/2/98	
Aroclor 1248	ND	0 112	μg/g	5/2/98	
Aroclor 1254	0 774	0 112	μg/g	5/2/98	
Aroclor 1260	0 262	0 112	μg/g	5/2/98	
Total PCB Amount > Reporting Li	mıt 1 04				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

TIME: 1100

CUSTOMER ID:

SV535-06

NEA ID:

AB02162

4517, SCHLUM

MATRIX:

DATE SAMPLED: 4/15/98

DATE RECEIVED:

FISH 4/18/98

PROJECT:

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/2/98	
Aroclor 1221	ND	0 112	μg/g	5/2/98	
Aroclor 1232	ND	0.112	μg/g	5/2/98	
Aroclor 1242	ND	0.112	μg/g	5/2/98	
Aroclor 1248	ND	0 112	μg/g	5/2/98	
Aroclor 1254	0 618	0 112	μg/g	5/2/98	
Aroclor 1260	0 231	0 112	μg/g	5/2/98	
Total PCB Amount > Reporting Li	mit 0 849				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV535-07

NEA ID:

AB02163

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorinate	ed Biphenyls					
Aroclor 1016	ND	0 112	μg/g	5/2/98		
Aroclor 1221	ND	0 112	μg/g	5/2/98		
Aroclor 1232	ND	0 112	μg/g	5/2/98		
Aroclor 1242	ND	0 112	μg/g	5/2/98		
Aroclor 1248	ND	0 112	μg/g	5/2/98		
Aroclor 1254	0 348	0 112	μg/g	5/2/98		
Aroclor 1260	0 130	0 112	μg/g	5/2/98		
Total PCB Amount > Reporting Limit	0 478					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV535-08

NEA ID:

M MAKA MAKA

AB02164

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 μg/g 5/3/98 Aroclor 1221 ND 0 112 μg/g 5/3/98 Aroclor 1232 ND 0 112 5/3/98 μg/g Aroclor 1242 0 112 5/3/98 ND μg/g Aroclor 1248 ND 0.112 5/3/98 μg/g Aroclor 1254 0.112 5/3/98 0 251 μg/g Aroclor 1260 ND 0 112 5/3/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

0.251

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

NORTHEAST ANALYTICAL , And

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-09

NEA ID

AB02165

MATRIX:

FISH

DATE SAMPLED: 4/15/98

1/15/98 **TIME:** N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 5/7/98 ND 0 112 μg/g Aroclor 1221 ND 0 112 5/7/98 μg/g Aroclor 1232 ND 0.112 5/7/98 μg/g Aroclor 1242 0 112 5/7/98 ND μg/g Aroclor 1248 ND 0 112 μg/g 5/7/98 Aroclor 1254 0 221 0 112 μg/g 5/7/98 Aroclor 1260 ND 0 112 μg/g 5/7/98 Total PCB Amount > Reporting Limit 0 221

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL M. M. M. L.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV535-10

NEA ID:

AB02166

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/7/98 Aroclor 1016 ND 0 112 μg/g Aroclor 1221 0 112 5/7/98 ND μg/g Aroclor 1232 0 112 5/7/98 ND μg/g Aroclor 1242 ND 0 112 μg/g 5/7/98 5/7/98 Aroclor 1248 0 112 ND μg/g Aroclor 1254 0380 0 112 5/7/98 μg/g Aroclor 1260 0 181 0 112 μg/g 5/7/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0 561

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-11

NEA ID:

AB02167

MATRIX:

DATE SAMPLED: 4/15/98

DATE RECEIVED:

FISH 4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 5/3/98 μg/g Aroclor 1221 ND 0 112 μց/ց 5/3/98 Aroclor 1232 ND 0 112 5/3/98 μg/g Aroclor 1242 ND 0.112 5/3/98 μg/g Aroclor 1248 ND 0.112 5/3/98 μg/g Aroclor 1254 1 54 0 112 5/3/98 μg/g 5/3/98 Aroclor 1260 0 557 0 112 μg/g

Total PCB Amount > Reporting Limit 2.1

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ___lm_nm__

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

TIME. 1100

CUSTOMER ID:

SV535-12

NEA ID:

AB02168

MATRIX:

DATE SAMPLED: 4/15/98

4517, SCHLUM

DATE RECEIVED:

FISH 4/18/98

PROJECT

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED UNITS RESULTS PQL DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls 5/3/98 Aroclor 1016 ND 0 112 μg/g Aroclor 1221 ND 0 112 5/3/98 μg/g Aroclor 1232 ND 0 112 5/3/98 μg/g Aroclor 1242 0 112 5/3/98 ND μg/g Aroclor 1248 0.112 5/3/98 ND μg/g 0 927 5/3/98 Aroclor 1254 0 112 μg/g 5/3/98 Aroclor 1260 0 446 0 112 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 37

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL M MAM AMA

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV535-13

NEA ID:

AB02169

MATRIX:

4/18/98

4517, SCHLUM

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

TIME. 1100

PROJECT. LOCATION:

N/A

CUSTOMER PO-

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenvls 0 112 5/3/98 Aroclor 1016 ND μg/g Aroclor 1221 0 112 5/3/98 ND μg/g Aroclor 1232 ND 0 112 μg/g 5/3/98 Aroclor 1242 ND 0.112 5/3/98 μg/g Aroclor 1248 0 112 5/3/98 ND μg/g 5/3/98 Aroclor 1254 0 896 0 112 μg/g 0 112 5/3/98 Aroclor 1260 0 367 μg/g

Total PCB Amount > Reporting Limit

1 26

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ________

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-14

NEA ID:

AB02170

MATRIX:

4517, SCHLUM

FISH 4/18/98

TIME: 1100

PROJECT.

DATE SAMPLED: 4/15/98 TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 336 5/3/98 μg/g Aroclor 1221 ND 0 336 5/3/98 μg/g Aroclor 1232 ND 0 336 5/3/98 μg/g Aroclor 1242 ND 0 336 5/3/98 μg/g Aroclor 1248 ND 0 336 5/3/98 μg/g Aroclor 1254 3 96 0 3 3 6 5/3/98 μg/g Aroclor 1260 0 708 0 336 5/3/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

4 67

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV535-16

NEA ID:

AB02172

MATRIX:

FISH

DATE SAMPLED: 4/15/98

8 TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00 PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 5/3/98 μg/g Aroclor 1221 ND 0 112 μg/g 5/3/98 Aroclor 1232 ND 0 112 5/3/98 μg/g 5/3/98 Aroclor 1242 ND 0.112 μg/g ND 0.112 5/3/98 Aroclor 1248 μg/g 5/3/98 Aroclor 1254 0 595 0 112 μg/g Aroclor 1260 0 193 0 112 5/3/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.788

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Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-17

NEA ID.

AB02173

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 1100 PROJECT. 4517, SCHLUM N/A

SAMPLED BY: **CUSTOMER PO:** N/A N/A LOCATION: LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/3/98	
Aroclor 1221	ND	0 112	μg/g	5/3/98	
Aroclor 1232	ND	0 112	μg/g	5/3/98	
Aroclor 1242	ND	0 112	μg/g	5/3/98	
Aroclor 1248	ND	0 112	μg/g	5/3/98	
Aroclor 1254	0 391	0 112	μg/g	5/3/98	
Aroclor 1260	0 132	0 112	μg/g	5/3/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0 523

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Total PCB Amount > Reporting Limit

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ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV535-18

NEA ID

AB02196

MATRIX:

FISH

DATE SAMPLED: 4/16/98

5/98 **TIME**: N/A

DATE RECEIVED:

4/18/98

TIME: 1100 PI

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 5/7/98 μg/g Aroclor 1221 ND 0.112 5/7/98 μg/g Aroclor 1232 0 112 ND 5/7/98 $\mu g/g$ Aroclor 1242 ND 0 112 5/7/98 μg/g Aroclor 1248 ND 0.112 5/7/98 μā/ā Aroclor 1254 1 47 0.112 5/7/98 μg/g Aroclor 1260 0 486 0 112 5/7/98 μg/g Total PCB Amount > Reporting Limit 196

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-19

NEA ID:

AB02197

MATRIX:

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

FISH 4/18/98

TIME 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls 5/7/98 Aroclor 1016 ND 0 112 μg/g Aroclor 1221 5/7/98 ND 0 112 μg/g Aroclor 1232 0 112 5/7/98 ND μg/g Aroclor 1242 ND 0.112 5/7/98 μg/g Aroclor 1248 ND 0.112 μg/g 5/7/98 Aroclor 1254 1 52 0.112 5/7/98 μg/g Aroclor 1260 0 624 0 112 5/7/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 14

Total PCB Amount > Reporting Limit

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ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-20

NEA ID:

AB02198

MATRIX:

FISH

DATE SAMPLED: 4/16/98

DATE RECEIVED:

4/18/98

TIME 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 448	μg/g	5/7/98	
Aroclor 1221	ND	0 448	μg/g	5/7/98	
Aroclor 1232	ND	0 448	μg/g	5/7/98	
Aroclor 1242	ND	0 448	μg/g	5/7/98	
Aroclor 1248	ND	0 448	μg/g	5/7/98	
Aroclor 1254	4 30	0 448	μg/g	5/7/98	
Aroclor 1260	0 989	0 448	μg/g	5/7/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

5 29

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Total PCB Amount > Reporting Limit

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ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-21

NEA ID:

AB02199

MATRIX:

FISH

DATE SAMPLED: 4/16/98

16/00 TIME

DATE RECEIVED:

4/18/98

TIME. 11 00 PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY.

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ted Biphenyls				
Aroclor 1016	ND	0 336	μg/g	5/8/98	
Aroclor 1221	ND	0 336	μg/g	5/8/98	
Aroclor 1232	ND	0 336	μg/g	5/8/98	
Aroclor 1242	ND	0 336	μg/g	5/8/98	
Aroclor 1248	ND	0 336	μg/g	5/8/98	
Aroclor 1254	3 70	0 336	μg/g	5/8/98	
Aroclor 1260	0 963	0 336	μg/g	5/8/98	
Total PCB Amount > Reporting Limit	4 66				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV535-22

NEAID

AB02200

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED.

4/18/98

TIME: 11 00

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/8/98	
Aroclor 1221	ND	0 112	μg/g	5/8/98	
Aroclor 1232	ND	0 112	μց/ց	5/8/98	
Aroclor 1242	ND	0.112	μg/g	5/8/98	
Aroclor 1248	ND	0.112	μg/g	5/8/98	
Aroclor 1254	1 78	0 112	μg/g	5/8/98	
Aroclor 1260	0 595	0 112	μg/g	5/8/98	
Total PCB Amount > Reporting L	ımıt 2 38				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-23

NEA ID:

AB02201

MATRIX:

E1011

DATE SAMPLED: 4/16/98

6/98 TIME: N/A

DATE RECEIVED:

FISH

TIME. 11 00 PROJECT.

SAMPLED BY:

4/18/98 N/A

LOCATION.

N/A

11078

CUSTOMER PO:

N/A

LAB ELAP#

4517, SCHLUM

FLAGS

PARAMETER PERFORMED	RESULTS	PQL	UNIIS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/8/98	
Aroclor 1221	ND	0 112	μg/g	5/8/98	
Aroclor 1232	ND	0 112	րց/ց	5/8/98	
Aroclor 1242	ND	0 112	μg/g	5/8/98	
Aroclor 1248	ND	0 112	μg/g	5/8/98	
Aroclor 1254	0 807	0 112	րց/ց	5/8/98	
Aroclor 1260	0 234	0 112	μg/g	5/8/98	
Total PCB Amount > Reporting Li	mit 1 04				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-23D

NEA ID:

AB02432

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00 PI

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	d Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/14/98	
Aroclor 1221	ND	0 112	μg/g	5/14/98	
Aroclor 1232	ND	0 112	μg/g	5/14/98	
Aroclor 1242	ND	0 112	μg/g	5/14/98	
Aroclor 1248	ND	0 112	μg/g	5/14/98	
Aroclor 1254	0 677	0 112	μg/g	5/14/98	
Aroclor 1260	0 200	0 112	μg/g	5/14/98	•
Total PCB Amount > Reporting Limit	0 877				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV535-24

NEA ID:

AB02202

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME. 1100

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 5/8/98 0.112 րջ/ջ Aroclor 1221 5/8/98 ND 0.112 ug/g Aroclor 1232 ND 0 112 5/8/98 កិ/ទី Aroclor 1242 ND 0 112 μg/g 5/8/98 Aroclor 1248 ND 0 112 5/8/98 μg/g Aroclor 1254 0.112 ND րց/ց 5/8/98 Aroclor 1260 ND 0 112 5/8/98 កិត/ត

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-01

NEA ID.

AB02203

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME 11 00

PROJECT

4517, SCHLUM

SAMPLED BY.

N/A

LOCATION

N/A

CUSTOMER PO-

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 5/8/98 μg/g Aroclor 1221 ND 0.112 5/8/98 μg/g Aroclor 1232 ND 0 112 5/8/98 μg/g Aroclor 1242 5/8/98 ND 0.112 μg/g Aroclor 1248 ND 0.112 μg/g 5/8/98 Aroclor 1254 0 2 7 6 0.112 5/8/98 μg/g Aroclor 1260 0 124 0 112 5/8/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

04

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Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

TIME: 1100

CUSTOMER ID:

SV641-02

NEA ID:

AB02204

MATRIX:

DATE SAMPLED: 4/16/98

FISH 4/18/98

PROJECT

4517, SCHLUM

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls ND 5/8/98 Aroclor 1016 0.112 μg/g Aroclor 1221 ND 0.112 5/8/98 μg/g Aroclor 1232 5/8/98 ND 0.112 μg/g Aroclor 1242 ND 0.112 5/8/98 μg/g Aroclor 1248 ND 0.112 μg/g 5/8/98 Aroclor 1254 0 391 0 112 5/8/98 μg/g Aroclor 1260 0.171 0.112 5/8/98 μg/g Total PCB Amount > Reporting Limit 0.562

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV641-03

NEA ID:

AB02205

MATRIX:

DATE SAMPLED 4/16/98

TIME: N/A

DATE RECEIVED:

FISH 4/18/98

TIME: 11 00

n reiti re

PROJECT.

4517, SCHLUM

DATE TECTED

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

DAD AMETER RESECUENCES

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polych	lorinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/8/98	
Aroclor 1221	ND	0 112	μg/g	5/8/98	
Aroclor 1232	ND	0 112	μg/g	5/8/98	
Aroclor 1242	ND	0 112	μg/g	5/8/98	
Aroclor 1248	ND	0 112	μg/g	5/8/98	
Aroclor 1254	ND	0 112	μg/g	5/8/98	
Aroclor 1260	ND	0 112	μg/g	5/8/98	
Total PCB Amount > Reporting	2 Limit 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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> CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID:

SV641-04

NEA ID:

AB02206

4517, SCHLUM

MATRIX:

DATE SAMPLED: 4/16/98

FISH

PROJECT

TIME: N/A

DATE RECEIVED: **SAMPLED BY:**

4/18/98 N/A

TIME: 11 00

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/8/98 Aroclor 1016 ND 0 112 μg/g Aroclor 1221 ND 5/8/98 0 112 μg/g Aroclor 1232 ND 0 112 μg/g 5/8/98 Aroclor 1242 ND 0 112 5/8/98 μg/g Aroclor 1248 ND 0 112 μg/g 5/8/98 Aroclor 1254 ND 5/8/98 0 112 μg/g Aroclor 1260 ND 0.112 5/8/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

TIME. 11 00

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV641-05

NEA ID.

AB02207

MATRIX:

FISH

DATE SAMPLED: 4/16/98

DATE RECEIVED:

4/18/98

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL.	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls					
Aroclor 1016	ND	0 112	μg/g	5/8/98		
Aroclor 1221	ND	0 112	μg/g	5/8/98		
Aroclor 1232	ND	0 112	μg/g	5/8/98		
Aroclor 1242	ND	0 112	μg/g	5/8/98		
Aroclor 1248	ND	0 112	μg/g	5/8/98		
Aroclor 1254	0 183	0 112	μg/g	5/8/98		
Aroclor 1260	0 121	0 112	μg/g	5/8/98		
Total PCB Amount > Reporting L	ımıt 0 304					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID.

SV641-05D

NEA ID:

AB02435

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED.

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorina	ted Biphenyls					
Aroclor 1016	ND	0 112	μg/g	5/8/98		
Aroclor 1221	ND	0 112	μg/g	5/8/98		
Aroclor 1232	ND	0 112	μg/g	5/8/98		
Aroclor 1242	ND	0 112	μg/g	5/8/98		
Aroclor 1248	ND	0 112	μg/g	5/8/98		
Aroclor 1254	0 163	0 112	μg/g	5/8/98		
Aroclor 1260	0 118	0 112	μg/g	5/8/98		
Total PCB Amount > Reporting Limi	t 0 281					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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NORTHEAST ANALYTICAL MAN AND M

ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

CUSTOMER ID:

SV641-06

NEA ID.

AB02208

MATRIX:

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 0 112 5/8/98 ND μg/g Aroclor 1221 ND 0 112 μg/g 5/8/98 Aroclor 1232 ND 0.112 5/8/98 μg/g Aroclor 1242 ND 0 112 μg/g 5/8/98 Aroclor 1248 ND 5/8/98 0 112 μg/g Aroclor 1254 ND 0 112 5/8/98 μg/g 5/8/98 Aroclor 1260 ND 0.112 μg/g Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-07

NEA ID:

AB02209

MATRIX:

FISH

DATE SAMPLED: 4/16/98

•

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ted Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/9/98	
Aroclor 1221	ND	0 112	μg/g	5/9/98	
Aroclor 1232	ND	0 112	μg/g	5/9/98	
Aroclor 1242	ND	0 112	μg/g	5/9/98	
Aroclor 1248	ND	0 112	μg/g	5/9/98	
Aroclor 1254	ND	0 112	μg/g	5/9/98	
Aroclor 1260	ND	0 112	μg/g	5/9/98	
Total PCB Amount > Reporting Limit	t 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV641-08

NEA ID:

AB02210

MATRIX:

FISH 4/18/98 DATE SAMPLED: 4/16/98

TIME. 1100

PROJECT.

4517, SCHLUM

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/9/98 Aroclor 1016 ND 0.112 μg/g Aroclor 1221 0.112 5/9/98 ND µg/g Aroclor 1232 ND 0.112 5/9/98 μg/g Aroclor 1242 ND 0 112 μg/g 5/9/98 Aroclor 1248 ND 0.112 5/9/98 μg/g Aroclor 1254 ND 0 112 5/9/98 μg/g Aroclor 1260 ND 0 112 5/9/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/14/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-09

NEA ID:

AB02211

MATRIX:

CIOII

DATE SAMPLED: 4/16/98

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DATE RECEIVED:

FISH 4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

. . . .

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #-

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 5/9/98 μg/g Aroclor 1221 ND 0 112 5/9/98 μg/g Aroclor 1232 5/9/98 ND 0.112 μg/g Aroclor 1242 0 112 5/9/98 ND μg/g Aroclor 1248 5/9/98 ND 0 112 μg/g Aroclor 1254 ND 5/9/98 0.112 μg/g Aroclor 1260 ND 5/9/98 0 112 μg/g

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV641-10

NEA ID.

AB02212

MATRIX:

FISH

4/18/98

DATE SAMPLED: 4/16/98

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

TIME: 11 00

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/9/98 Aroclor 1016 ND 0 112 μg/g Aroclor 1221 0 112 5/9/98 ND μg/g Aroclor 1232 0 112 5/9/98 ND μg/g Aroclor 1242 5/9/98 ND 0 112 μg/g 5/9/98 Aroclor 1248 ND 0 112 μg/g 5/9/98 Aroclor 1254 ND 0.112 μg/g Aroclor 1260 ND 0 112 μg/g 5/9/98

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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NORTHEAST ANALYTICAL ________

TIME. 1100

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> **CERTIFICATE OF ANALYSIS** 5/14/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV641-11

NEA ID.

AB02213

MATRIX:

DATE SAMPLED. 4/16/98

DATE RECEIVED:

FISH 4/18/98

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	unated Biphenyls		<u>. </u>		
Aroclor 1016	ND	0 112	μg/g	5/9/98	
Aroclor 1221	ND	0.112	μg/g	5/9/98	
Aroclor 1232	ND	0 112	μg/g	5/9/98	
Aroclor 1242	ND	0 112	μg/g	5/9/98	
Aroclor 1248	ND	0 112	μg/g	5/9/98	
Aroclor 1254	ND	0 112	μg/g	5/9/98	
Aroclor 1260	ND	0 112	μg/g	5/9/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT. JIM ORR

CUSTOMER ID:

SV641-12

NEA ID:

AB02214

MATRIX:

4/18/98

FISH

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED: SAMPLED BY:

N/A

TIME: 1100

PROJECT: LOCATION: 4517, SCHLUM

CUSTOMER PO:

N/A

LAB ELAP #:

N/A 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/9/98 Aroclor 1016 ND 0.112 μg/g Aroclor 1221 ND 0.112 5/9/98 μg/g -'Aroclor 1232 ND 0.112 μg/g 5/9/98 Aroclor 1242 ND 0.112 μg/g 5/9/98 5/9/98 Aroclor 1248 0 112 ND μg/g Aroclor 1254 ND 0 112 5/9/98 μg/g 5/9/98 Aroclor 1260 ND 0.112 μg/g

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 5/14/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228**

BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-13

NEA ID:

AB02215

MATRIX:

4/18/98

DATE SAMPLED: 4/16/98

4517, SCHLUM

FISH

PROJECT.

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

TIME: 11 00

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 5/9/98 ND 0.112 μg/g Aroclor 1221 ND 0 112 5/9/98 μg/g Aroclor 1232 ND 0.112 μg/g 5/9/98 Aroclor 1242 ND 0.112 5/9/98 μg/g Aroclor 1248 ND 0.112 $\mu g/g$ 5/9/98 Aroclor 1254 5/9/98 0 148 0 112 μg/g Aroclor 1260 ND 0.112 5/9/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0 148

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV641-15

NEA ID:

AB02217

MATRIX:

DATE SAMPLED: 4/17/98

UNITS

TIME: N/A

DATE RECEIVED:

FISH 4/18/98

TIME: 1100 PROJECT:

POL

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO-

PARAMETER PERFORMED

N/A

RESULTS

1 75

LAB ELAP#.

11078

DATE FESTED

FLAGS

	112000	. 42		_	
SW-846 Method 8082, Polych	Jorgan Ruphanyle				
344-840 Method 8082, Polych	normated bipnenyis				
Aroclor 1016	ND	0 112	μg/g	5/9/98	
Aroclor 1221	ND	0 112	μg/g	5/9/98	
Aroclor 1232	ND	0 112	μg/g	5/9/98	
Aroclor 1242	ND	0 112	μg/g	5/9/98	
Aroclor 1248	ND	0 112	μg/g	5/9/98	
Aroclor 1254	1 10	0 112	μg/g	5/9/98	
Aroclor 1260	0 655	0 112	μg/g	5/9/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Total PCB Amount > Reporting Limit

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/18/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV641-16

NEA ID:

AB02218

MATRIX:

FISH

DATE SAMPLED: 4/17/98

7/98 **TIME**: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

 $\textbf{PROJECT} \cdot$

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 224 5/14/98 μg/g Aroclor 1221 ND 0 224 μg/g 5/14/98 Aroclor 1232 ND 0.224 5/14/98 μg/g Aroclor 1242 0 224 5/14/98 ND ng/g Aroclor 1248 ND 0 224 5/14/98 μg/g 0 224 5/14/98 Aroclor 1254 2 3 5 μg/g Aroclor 1260 0 554 0 224 μg/g 5/14/98 Total PCB Amount > Reporting Limit 29

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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> CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

TIME. 1100

CUSTOMER ID:

SV641-17

NEA ID:

AB02219

MATRIX:

PROJECT:

4517, SCHLUM

FISH 4/18/98 DATE SAMPLED: 4/17/98

TIME: N/A

DATE RECEIVED: **SAMPLED BY:**

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	orinated Biphenyls			<u>-</u>	
Aroclor 1016	ND	0 112	μg/g	5/9/98	
Aroclor 1221	ND	0 112	μg/g	5/9/98	
Aroclor 1232	ND	0 112	μg/g	5/9/98	
Aroclor 1242	ND	0 112	μg/g	5/9/98	
Aroclor 1248	ND	0 112	μg/g	5/9/98	
Aroclor 1254	0 847	0 112	μg/g	5/9/98	
Aroclor 1260	0 421	0 112	μg/g	5/9/98	
Total PCB Amount > Reporting	Limit 127				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/15/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-18

NEA ID:

AB02220

MATRIX:

FISH

DATE SAMPLED: 4/17/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinat	ed Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/9/98	
Aroclor 1221	ND	0 112	μg/g	5/9/98	
Aroclor 1232	ND	0 112	μg/g	5/9/98	
Aroclor 1242	ND	0 112	μg/g	5/9/98	
Aroclor 1248	ND	0 112	μg/g	5/9/98	
Aroclor 1254	2 10	0 112	μg/g	5/9/98	
Aroclor 1260	0 757	0 112	μg/g	5/9/98	
Total PCB Amount > Reporting Limit	2 86				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

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> **CERTIFICATE OF ANALYSIS** 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

DATE RECEIVED:

SV641-19

NEA ID:

AB02221

MATRIX:

DATE SAMPLED: 4/17/98

TIME: N/A

FISH 4/18/98

TIME: 11 00 PROJECT: 4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PEI	RFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method	ł 8082, Polychlor	inated Biphenyls	-			
Aroclor 1016		ND	0 224	μg/g	5/9/98	
Aroclor 1221		ND	0 224	μg/g	5/9/98	
Aroclor 1232		ND	0 224	μg/g	5/9/98	
Aroclor 1242		ND	0 224	μg/g	5/9/98	
Aroclor 1248		ND	0 224	μg/g	5/9/98	
Aroclor 1254		2 19	0 224	μg/g	5/9/98	
Aroclor 1260		0 513	0 224	μg/g	5/9/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

2 7

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/18/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV641-20

NEA ID:

AB02222

MATRIX:

DATE RECEIVED:

FISH 4/18/98

PROJECT:

DATE SAMPLED: 4/17/98

TIME: N/A

SAMPLED BY:

N/A

TIME: 11 00

LOCATION:

4517, SCHLUM

CUSTOMER PO:

N/A

LAB ELAP #:

N/A 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rınated Bıphenyls				
Aroclor 1016	ND	0 668	μg/g	5/16/98	
Aroclor 1221	ND	0 668	μg/g	5/16/98	
Aroclor 1232	ND	0 668	μg/g	5/16/98	
Aroclor 1242	ND	0 668	μg/g	5/16/98	
Aroclor 1248	ND	0 668	μg/g	5/16/98	
Aroclor 1254	7 04	0 668	μg/g	5/16/98	
Aroclor 1260	1 33	0 668	μg/g	5/16/98	
Total PCB Amount > Reporting I	Limit 8 37				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR**

CUSTOMER ID:

SV641-21

NEA ID:

AB02223

MATRIX:

DATE SAMPLED: 4/17/98

DATE RECEIVED:

FISH 4/18/98

TIME: 11 00 PROJECT: 4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/9/98 Aroclor 1016 ND 0 118 μg/g Aroclor 1221 5/9/98 ND 0 118 μg/g Aroclor 1232 5/9/98 ND 0 118 μg/g Aroclor 1242 ND 5/9/98 0.118 րց/ց Aroclor 1248 ND 0 118 μg/g 5/9/98 Aroclor 1254 1 18 0 118 5/9/98 μg/g Aroclor 1260 ND 0 118 5/9/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

118

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

Robert E Wagner Laboratory Directifi

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL M MAR MALA

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV641-22

NEA ID:

AB02224

MATRIX:

DATE SAMPLED: 4/17/98

TIME: N/A

DATE RECEIVED:

FISH 4/18/98

TIME: 1100

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenvis Aroclor 1016 ND 0 118 μg/g 5/10/98 Aroclor 1221 ND 0 118 5/10/98 μg/g Aroclor 1232 ND 0.118 μg/g 5/10/98 Aroclor 1242 ND 0118 5/10/98 μg/g Aroclor 1248 ND 0118 μg/g 5/10/98 Aroclor 1254 ND 0 118 μg/g 5/10/98 Aroclor 1260 ND 0.118 5/10/98 μg/g

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID.

SV641-23

NEA ID:

AB02225

MATRIX:

DATE SAMPLED: 4/17/98

DATE RECEIVED:

FISH 4/18/98

TIME: 11 00 PROJECT.

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Poly	chlorinated Biphenyls				
Aroclor 1016	ND	0 114	μg/g	5/10/98	
Aroclor 1221	ND	0 114	μg/g	5/10/98	
Aroclor 1232	ND	0 114	μg/g	5/10/98	
Aroclor 1242	ND	0 114	μg/g	5/10/98	
Aroclor 1248	ND	0 114	μg/g	5/10/98	
Aroclor 1254	ND	0 114	μg/g	5/10/98	
Aroclor 1260	ND	0 114	μg/g	5/10/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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> **CERTIFICATE OF ANALYSIS** 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV641-24

NEA ID:

AB02226

MATRIX:

FISH 4/18/98

PROJECT:

DATE SAMPLED: 4/17/98 TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

TIME 11 00

LOCATION:

4517, SCHLUM

CUSTOMER PO:

N/A

LAB ELAP #:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	orinated Biphenyls				
Aroclor 1016	ND	0 117	μg/g	5/10/98	
Aroclor 1221	ND	0 117	μg/g	5/10/98	
Aroclor 1232	ND	0 117	μg/g	5/10/98	
Aroclor 1242	ND	0 117	μg/g	5/10/98	
Aroclor 1248	ND	0 117	րց/ց	5/10/98	
Aroclor 1254	ND	0117	μg/g	5/10/98	
Aroclor 1260	ND	0 117	μg/g	5/10/98	
Total PCB Amount > Reporting	Limit 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

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> **CERTIFICATE OF ANALYSIS** 5/15/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

CUSTOMER ID:

SV641-25

NEA ID:

AB02227

MATRIX:

FISH

DATE SAMPLED: 4/17/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 114	μg/g	5/10/98	
Aroclor 1221	ND	0 114	μg/g	5/10/98	
Aroclor 1232	ND	0 114	μg/g	5/10/98	
Aroclor 1242	ND	0 114	μg/g	5/10/98	
Aroclor 1248	ND	0 114	μg/g	5/10/98	
Aroclor 1254	ND	0 114	μg/g	5/10/98	
Aroclor 1260	ND	0 114	μg/g	5/10/98	
Total PCB Amount > Reporting L	Limit 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-26

NEA ID:

AB02363

MATRIX:

FISH

DATE SAMPLED. 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

.517, 5011601

CUSTOMER PO:

N/A

LAB ELAP#:

N/A 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 116 μg/g 5/15/98 Aroclor 1221 ND 0 116 5/15/98 μg/g Aroclor 1232 ND 0 116 5/15/98 μg/g Aroclor 1242 ND 0 116 5/15/98 μg/g Aroclor 1248 ND 0 116 μg/g 5/15/98 Aroclor 1254 1 39 0 116 րե/ն 5/15/98 Aroclor 1260 0 739 0 116 μg/g 5/15/98

Total PCB Amount > Reporting Limit

2 13

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV641-27

NEA ID

AB02364

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls			·	
Aroclor 1016	ND	0 346	μg/g	5/18/98	
Aroclor 1221	ND	0 346	μg/g	5/18/98	
Aroclor 1232	ND	0 346	μg/g	5/18/98	
Aroclor 1242	ND	0 346	μg/g	5/18/98	
Aroclor 1248	ND	0 346	μg/g	5/18/98	
Aroclor 1254	3 80	0 346	μg/g	5/18/98	
Aroclor 1260	0 989	0 346	μg/g	5/18/98	
Total PCB Amount > Reporting Li	mit 4 79				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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> **CERTIFICATE OF ANALYSIS** 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV642-01

NEA ID:

AB02174

MATRIX:

FISH

4517, SCHLUM

DATE RECEIVED:

4/18/98

TIME. 1100

PROJECT:

DATE SAMPLED: 4/15/98 TIME: N/A

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinate	ed Biphenyls			,	
Aroclor 1016	ND	0 112	μg/g	5/5/98	
Aroclor 1221	ND	0 112	μg/g	5/5/98	
Aroclor 1232	ND	0 112	μg/g	5/5/98	
Aroclor 1242	ND	0 112	μg/g	5/5/98	
Aroclor 1248	ND	0 112	μg/g	5/5/98	
Aroclor 1254	0 436	0 112	μg/g	5/5/98	
Aroclor 1260	0 184	0 112	μ <u>ց</u> /ց	5/5/98	
Total PCB Amount > Reporting Limit	0 62				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

CUSTOMER ID:

SV642-02

NEA ID:

AB02175

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98 N/A

TIME: 11 00

PROJECT: LOCATION: 4517, SCHLUM

SAMPLED BY: CUSTOMER PO:

N/A

LAB ELAP #:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/5/98	
Aroclor 1221	ND	0 112	μg/g	5/5/98	
Aroclor 1232	ND	0 112	μg/g	5/5/98	
Aroclor 1242	ND	0 112	μg/g	5/5/98	
Aroclor 1248	ND	0 112	μg/g	5/5/98	
Aroclor 1254	0 264	0 112	μg/g	5/5/98	
Aroclor 1260	0 200	0 112	μ <u>υ</u> /g	5/5/98	
Total PCB Amount > Reporting I	_imit 0 464				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV642-03

NEA ID:

AB02176

MATRIX:

DATE SAMPLED: 4/15/98

TIME: N/A

FISH 4/18/98

TIME 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 0 112 5/5/98 ND μg/g Aroclor 1221 ND 0 112 5/5/98 μg/g Aroclor 1232 5/5/98 ND 0 112 μg/g Aroclor 1242 ND 5/5/98 0 112 μg/g Aroclor 1248 ND 0 112 5/5/98 μg/g Aroclor 1254 0.300 5/5/98 0.112 μg/g 5/5/98 Aroclor 1260 0 206 0.112 μg/g Total PCB Amount > Reporting Limit 0 506

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV642-04

NEA ID:

AB02177

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00 PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 μg/g 5/5/98 Aroclor 1221 ND 0 112 μg/g 5/5/98 Aroclor 1232 ND 0.112 $\mu g/g$ 5/5/98 Aroclor 1242 ND 0.112 5/5/98 μg/g Aroclor 1248 ND 0.112 5/5/98 μg/g Aroclor 1254 0 5 1 9 0 112 5/5/98 μց/ց Aroclor 1260 0 293 0 112 μg/g 5/5/98

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.812

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

NORTHEAST ANALYTICAL ______

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

TIME: 11 00

CUSTOMER ID:

SV642-05

NEA ID:

AB02178

MATRIX:

DATE SAMPLED: 4/15/98

DATE RECEIVED:

FISH

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

4/18/98 N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED RESULTS UNITS PQL DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.112 5/5/98 μg/g Aroclor 1221 ND 0.112 μg/g 5/5/98 Aroclor 1232 ND 0.112 μց/ց 5/5/98 Aroclor 1242 ND 0 112 5/5/98 μg/g Aroclor 1248 ND 0 112 5/5/98 μg/g Aroclor 1254 0 128 5/5/98 0.112 μg/g Aroclor 1260 ND 0.112 5/5/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.128

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

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CERTIFICATE OF ANALYSIS 5/8/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT JIM ORR

CUSTOMER ID:

SV642-06

NEA ID:

AB02179

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED: **SAMPLED BY:**

4/18/98

TIME. 1100

PROJECT: LOCATION: 4517, SCHLUM N/A

CUSTOMER PO:

N/A N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 112	μg/g	5/5/98	
Aroclor 1221	ND	0 112	μg/g	5/5/98	
Aroclor 1232	ND	0 112	μg/g	5/5/98	
Aroclor 1242	ND	0 112	μg/g	5/5/98	
Aroclor 1248	ND	0 112	μg/g	5/5/98	
Aroclor 1254	ND	0 112	μg/g	5/5/98	
Aroclor 1260	ND	0 112	μg/g	5/5/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc

ENVIRONMENTAL LAB SERVICES

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> **CERTIFICATE OF ANALYSIS** 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV642-07

NEA ID.

AB02180

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 1100 PROJECT: 4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

PARAMETER PERFORMED

Aroclor 1016

Aroclor 1221

Aroclor 1232

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

N/A

LAB ELAP #:

11078

RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/5/98 ND 0 112 μg/g 5/5/98 ND 0 112 μg/g ND 0 112 μg/g 5/5/98 ND 0.112 μg/g 5/5/98 0.112 5/5/98 ND μg/g 5/5/98 0.118 0.112 μg/g 5/5/98 ND 0 112 $\mu g/g$

Total PCB Amount > Reporting Limit

0 118

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AMA

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/8/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV642-08

NEA ID:

AB02181

MATRIX:

FISH

DATE SAMPLED: 4/15/98

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS POL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 112 μg/g 5/5/98 Aroclor 1221 5/5/98 ND 0 112 μg/g Aroclor 1232 ND 0 112 5/5/98 μg/g Aroclor 1242 5/5/98 ND 0 112 μg/g Aroclor 1248 0.112 5/5/98 ND μg/g Aroclor 1254 0 153 0 112 5/5/98 μg/g Aroclor 1260 ND 5/5/98 0 112 μg/g Total PCB Amount > Reporting Limit 0 153

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL AND MAN AND MAN

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/20/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV642-09

NEA ID:

AB02182

MATRIX:

FISH

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	orinated Biphenyls					
Aroclor 1016	ND	0 117	μg/g	5/17/98		
Aroclor 1221	ND	0 117	μg/g	5/17/98		
Aroclor 1232	ND	0 117	μg/g	5/17/98		
Aroclor 1242	ND	0 117	μg/g	5/17/98		
Aroclor 1248	ND	0 117	μg/g	5/17/98		
Aroclor 1254	ND	0 117	μg/g	5/17/98		
Aroclor 1260	ND	0 117	μg/g	5/17/98		
Total PCB Amount > Reporting	Limit 0					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

NORTHEAST ANALYTICAL , AMA , AMA

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/15/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV642-10

NEA ID:

AB02228

MATRIX:

FISH

DATE SAMPLED: 4/17/98

UNITS

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A 11078

CUSTOMER PO:

PARAMETER PERFORMED

N/A

LAB ELAP #:

PQL

DATE TESTED

FLAGS

SW-846 Method	1.8082	Polychlorinated	Rinhenvis

Aroclor 1016	ND	0 118	μg/g	5/10/98
Aroclor 1221	ND	0 118	μg/g	5/10/98
Aroclor 1232	ND	0 118	μg/g	5/10/98
Aroclor 1242	ND	0 118	μg/g	5/10/98
Aroclor 1248	ND	0 118	μg/g	5/10/98
Aroclor 1254	0 144	0 118	μg/g	5/10/98
Aroclor 1260	ND	0 118	μg/g	5/10/98

RESULTS

Total PCB Amount > Reporting Limit

0 144

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

TIME. 11 00

ENVIRONMENTAL LAB SERVICES

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> **CERTIFICATE OF ANALYSIS** 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV642-11

NEA ID

AB02229

MATRIX:

DATE SAMPLED: 4/17/98

TIME: N/A

DATE RECEIVED:

FISH 4/18/98

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rınated Bıphenyls			· ·	
Aroclor 1016	ND	0 116	μg/g	5/10/98	
Aroclor 1221	ND	0 116	μg/g	5/10/98	
Aroclor 1232	ND	0 116	μg/g	5/10/98	
Aroclor 1242	ND	0 116	μg/g	5/10/98	
Aroclor 1248	ND	0 116	μg/g	5/10/98	
Aroclor 1254	0 992	0 116	μg/g	5/10/98	
Aroclor 1260	0 177	0 116	μg/g	5/10/98	
Total PCB Amount > Reporting L	Limit 117				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

TIME: 11 00

CUSTOMER ID:

SV642-11D

NEA ID:

AB02434

MATRIX:

4517, SCHLUM

FISH 4/18/98 DATE SAMPLED: 4/17/98 PROJECT.

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychl	orinated Biphenyls				
Aroclor 1016	ND	0 116	μg/g	5/10/98	
Aroclor 1221	ND	0 116	μg/g	5/10/98	
Aroclor 1232	ND	0 116	μg/g	5/10/98	
Aroclor 1242	ND	0 116	μg/g	5/10/98	
Aroclor 1248	ND	0 116	μg/g	5/10/98	
Aroclor 1254	0 896	0 116	μg/g	5/10/98	
Aroclor 1260	0 346	0 116	μg/g	5/10/98	
Total PCB Amount > Reporting	Limit 1 24				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL POL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV642-12

NEA ID.

AB02230

MATRIX:

DATE SAMPLED: 4/17/98

TIME: N/A

FISH 4/18/98

TIME: 11 00 PROJECT: 4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls				
Aroclor 1016	ND	0 117	μg/g	5/10/98	
Aroclor 1221	ND	0 117	μg/g	5/10/98	
Aroclor 1232	ND	0 117	μg/g	5/10/98	
Aroclor 1242	ND	0 117	μg/g	5/10/98	
Aroclor 1248	ND	0 117	μg/g	5/10/98	
Aroclor 1254	0 667	0 117	μg/g	5/10/98	
Aroclor 1260	0 243	0 117	μg/g	5/10/98	
Total PCB Amount > Reporting Lim	nit 0.91				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/15/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV642-14

NEA ID.

AB02232

MATRIX:

FISH

11002252

DATE SAMPLED: 4/17/98

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT:

4517, SCHLUM

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED RESULTS UNITS PQL DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 5/10/98 0.115 μg/g Aroclor 1221 ND 0 115 μg/g 5/10/98 Aroclor 1232 5/10/98 ND 0 115 μg/g Aroclor 1242 ND 0.115 μg/g 5/10/98 Aroclor 1248 ND 0 115 5/10/98 μg/g 1 15 Aroclor 1254 0 115 5/10/98 μg/g Aroclor 1260 0.512 0 115 5/10/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 66

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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> **CERTIFICATE OF ANALYSIS** 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

TIME: 11 00

CUSTOMER ID-

SV642-17

NEA ID:

AB02235

MATRIX:

DATE SAMPLED: 4/17/98

FISH 4/18/98

PROJECT:

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

4517, SCHLUM

CUSTOMER PO:

N/A

LAB ELAP #:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlor	rinated Biphenyls					
Aroclor 1016	ND	0 117	μg/g	5/10/98		
Aroclor 1221	ND	0 117	μg/g	5/10/98		
Aroclor 1232	ND	0 117	μg/g	5/10/98		
Aroclor 1242	ND	0 117	μg/g	5/10/98		
Aroclor 1248	ND	0 117	μg/g	5/10/98		
Aroclor 1254	2 39	0 117	μg/g	5/10/98		
Aroclor 1260	0 570	0 117	μg/g	5/10/98		
Total PCB Amount > Reporting L	ımıt 2 96					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CERTIFICATE OF ANALYSIS 5/15/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV642-19

NEA 1D:

AB02237

MATRIX:

FISH

DATE SAMPLED: 4/17/98

TIME. N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlor	inated Biphenyls			'	
Aroclor 1016	ND	0 116	μg/g	5/10/98	
Aroclor 1221	ND	0 116	μg/g	5/10/98	
Aroclor 1232	ND	0 116	μg/g	5/10/98	
Aroclor 1242	ND	0 116	μg/g	5/10/98	
Aroclor 1248	ND	0 116	μg/g	5/10/98	
Aroclor 1254	0 120	0 116	μg/g	5/10/98	
Aroclor 1260	ND	0 116	μg/g	5/10/98	
Total PCB Amount > Reporting L	ımıt 0 12				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV642-20

NEA ID:

AB02238

MATRIX:

FISH

DATE SAMPLED: 4/17/98

DATE RECEIVED:

4/18/98

TIME. 1100

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION.

N/A 11078

CUSTOMER PO:

N/A

LAB ELAP#.

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlori	nated Biphenyls					
Aroclor 1016	ND	0 118	μg/g	5/10/98		
Aroclor 1221	ND	0 118	μg/g	5/10/98		
Aroclor 1232	ND	0 118	μg/g	5/10/98		
Aroclor 1242	ND	0 118	μg/g	5/10/98		
Aroclor 1248	ND	0 118	μg/g	5/10/98		
Aroclor 1254	0 23 1	0 118	μg/g	5/10/98		
Aroclor 1260	ND	0 118	μց/g	5/10/98		
Total PCB Amount > Reporting Lin	mit 0 231					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

NORTHEAST ANALYTICAL الساسات

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/15/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV642-21

NEA ID:

AB02239

MATRIX:

DATE SAMPLED: 4/17/98

TIME: N/A

FISH 4/18/98

TIME: 11 00

PROJECT

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

DATE RECEIVED:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ited Biphenyls				
Aroclor 1016	ND	0 116	μg/g	5/10/98	
Aroclor 1221	ND	0 116	μg/g	5/10/98	
Aroclor 1232	ND	0 116	μg/g	5/10/98	
Aroclor 1242	ND	0 116	μg/g	5/10/98	
Aroclor 1248	ND	0 116	μg/g	5/10/98	
Aroclor 1254	0 431	0 116	μg/g	5/10/98	
Aroclor 1260	0 125	0 116	μg/g	5/10/98	
Total PCB Amount > Reporting Limi	t 0 556				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/15/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

SV642-22

NEA ID

AB02240

MATRIX:

FISH

DATE SAMPLED: 4/17/98

8 TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED UNITS RESULTS POI DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls 5/10/98 Aroclor 1016 ND 0.115 μg/g Aroclor 1221 5/10/98 ND 0 115 μg/g Aroclor 1232 5/10/98 ND 0 115 րց/ց 5/10/98 Aroclor 1242 ND 0 115 $\mu g/g$ Aroclor 1248 ND 0 115 μg/g 5/10/98 Aroclor 1254 0 160 0 115 5/10/98 μg/g 5/10/98 Aroclor 1260 ND 0 115 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.16

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

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> **CERTIFICATE OF ANALYSIS** 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

SV642-24

NEA ID:

AB02357

MATRIX:

FISH

DATE SAMPLED: 4/22/98

4/24/98

PROJECT.

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

TIME: 930

LOCATION:

4517, SCHLUM

CUSTOMER PO:

N/A N/A

LAB ELAP#:

11078

N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls	<u>-</u>			
Aroclor 1016	ND	0 117	μg/g	5/15/98	
Aroclor 1221	ND	0 117	μg/g	5/15/98	
Aroclor 1232	ND	0 117	μg/g	5/15/98	
Aroclor 1242	ND	0 117	μg/g	5/15/98	
Aroclor 1248	ND	0 117	μg/g	5/15/98	
Aroclor 1254	1 38	0 117	μg/g	5/15/98	
Aroclor 1260	0 417	0117	μg/g	5/15/98	
Total PCB Amount > Reporting L	umit 18				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 **BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV642-25

NEA ID:

AB02358

MATRIX:

DATE SAMPLED: 4/22/98

FISH

TIME: N/A

DATE RECEIVED.

4/24/98

TIME: 930

PROJECT LOCATION: 4517, SCHLUM

SAMPLED BY. **CUSTOMER PO:** N/A N/A

LAB ELAP #

N/A 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls ND 5/15/98 Aroclor 1016 0 117 μg/g Aroclor 1221 ND 0 117 րց/ջ 5/15/98 Aroclor 1232 5/15/98 ND 0 117 μg/g Aroclor 1242 ND 0 117 μg/g 5/15/98 Aroclor 1248 ND 0 117 րց/ց 5/15/98 Aroclor 1254 0916 5/15/98 0 117 μg/g 5/15/98 Aroclor 1260 0411 0 117 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 33

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

SV642-26

NEA ID:

AB02359

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

CUSTOMER PO:

N/A N/A LOCATION: LAB ELAP #: N/A 11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 114 5/17/98 μg/g Aroclor 1221 ND 0 114 μg/g 5/17/98 Aroclor 1232 ND 0 114 5/17/98 μg/g Aroclor 1242 ND 0 114 5/17/98 μg/g Aroclor 1248 ND 0 114 5/17/98 μg/g Aroclor 1254 1.85 0 114 5/17/98 μg/g Aroclor 1260 0 546 0 114 5/17/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

24

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical Inc

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CERTIFICATE OF ANALYSIS 5/19/98

ERM-SOUTHEAST, INC. 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027**

CONTACT: JIM ORR

TIME: 930

CUSTOMER ID:

SV642-27

NEA ID:

AB02360

MATRIX:

4517, SCHLUM

FISH 4/24/98

PROJECT.

DATE SAMPLED: 4/22/98 TIME: N/A

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	ated Biphenyls			'	
Aroclor 1016	ND	0 352	μg/g	5/18/98	
Aroclor 1221	ND	0 352	μg/g	5/18/98	
Aroclor 1232	ND	0 352	μg/g	5/18/98	
Aroclor 1242	ND	0 352	μg/g	5/18/98	
Aroclor 1248	ND	0 352	μg/g	5/18/98	
Aroclor 1254	3 98	0 352	μg/g	5/18/98	
Aroclor 1260	0 725	0 352	μg/g	5/18/98	
Total PCB Amount > Reporting Lim	ıt 4.71				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

TIME. 930

CUSTOMER ID:

SV642-28

NEA ID:

AB02361

MATRIX:

FISH

DATE SAMPLED: 4/22/98

4517, SCHLUM

DATE RECEIVED:

4/24/98

PROJECT.

TIME: N/A

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorin	nated Biphenyls	-	-		
Aroclor 1016	ND	0 232	μg/g	5/15/98	
Aroclor 1221	ND	0 232	μg/g	5/15/98	
Aroclor 1232	ND	0 232	μg/g	5/15/98	
Aroclor 1242	ND	0 232	μg/g	5/15/98	
Aroclor 1248	ND	0 232	μg/g	5/15/98	
Aroclor 1254	1 45	0 232	μg/g	5/15/98	
Aroclor 1260	0 538	0 232	μg/g	5/15/98	
Total PCB Amount > Reporting Lin	nit 199				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/19/98

ERM- SOUTHEAST, INC. 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

SV642-29

NEA ID.

AB02362

MATRIX:

FISH

DATE SAMPLED: 4/22/98

TIME: N/A

DATE RECEIVED:

4/24/98

TIME. 930

PROJECT:

4517, SCHLUM

SAMPLED BY:

N/A

LOCATION

N/A 11078

CUSTOMER PO:

N/A

LAB ELAP #:

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED FLAGS SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0 116 μg/g 5/15/98 Aroclor 1221 ND 0 116 5/15/98 μg/g Aroclor 1232 ND 5/15/98 0 116 րջ/ջ Aroclor 1242 ND 0 116 5/15/98 μg/g Aroclor 1248 5/15/98 ND 0 116 μg/g Aroclor 1254 1 10 0 116 μg/g 5/15/98 Aroclor 1260 0 330 0 116 5/15/98 μg/g

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

1 43

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

Northeast Analytical, Inc.

Appendix C Corbicula Analytical Data Sheets

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

C-0

NEA ID:

AB03353

MATRIX:

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME 10 30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO-

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polyc	nlorinated Biphenyls					
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND 0 136 ND	0 114 0 114 0 114 0 114 0 114	កជ/ខ កធ/ខ កឧ/ខ កឧ/ខ កឧ/ខ	6/23/98 6/23/98 6/23/98 6/23/98 6/23/98 6/23/98		
Aroclor 1260	ND	0 114	μg/g	6/23/98		

Total PCB Amount > Reporting Limit

0.136

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL , AMA A

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

C-1

NEA ID

AB03354

MATRIX:

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME. 10 30

PROJECT.

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorina	ited Biphenyls			·	
Aroclor 1016	ND	0 241	μ <u>ց</u> /ց	6/23/98	
Aroclor 1221	ND	0.241	μg/g	6/23/98	
Aroclor 1232	ND	0 241	րը/ջ	6/23/98	
Aroclor 1242	ND	0 241	μg/g	6/23/98	
Aroclor 1248	2 14	0 241	μց/ց	6/23/98	
Aroclor 1254	ND	0.241	μg/g	6/23/98	
Aroclor 1260	ND	0 241	րց/ց	6/23/98	
Total PCB Amount > Reporting Limi	t 2 14				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

C-2

NEA ID:

AB03355

MATRIX:

CORBICULA

DATE SAMPLED. 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME. 10 30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO.

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenvis Aroclor 1016 0 119 6/23/98 ND μg/g Aroclor 1221 ND 0.119 μg/g 6/23/98 Aroclor 1232 0.119 6/23/98 ND $\mu g/g$ Aroclor 1242 ND 0119 6/23/98 μց/g Aroclor 1248 0.175 6/23/98 0 119 μg/g Aroclor 1254 ND 0.119 6/23/98 ug/g Aroclor 1260 6/23/98 ND 0.119 րց/ջ

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.175

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Total PCB Amount > Reporting Limit

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 6/29/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT JIM ORR

CUSTOMER ID:

C-3

NEAID

AB03356

MATRIX:

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME: 10.30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION

N/A 11078

CUSTOMER PO:

N/A

LAB ELAP #.

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlorin	nated Biphenyls				-	
Aroclor 1016	ND	0 248	μg/g	6/23/98		
Aroclor 1221	ND	0 248	μg/g	6/23/98		
Aroclor 1232	ND	0.248	μg/g	6/23/98		
Aroclor 1242	ND	0.248	μg/g	6/23/98		
Aroclor 1248	2 56	0 248	μg/g	6/23/98		
Aroclor 1254	ND	0 248	μg/g	6/23/98		
Aroclor 1260	ND	0 248	μg/g	6/23/98		
Total PCB Amount > Reporting Lin	nit 2 56					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 6/29/98

ERM-SOUTHEAST, INC 7106 CROSSROADS BLVD **SUITE 228 BRENTWOOD, TN 37027** CONTACT: JIM ORR

CUSTOMER ID:

C-4

NEA ID

MAN AMA

AB03357

MATRIX:

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME 10.30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0.123 μg/g 6/24/98 Aroclor 1221 ND 0 123 6/24/98 μg/g Aroclor 1232 ND 0.123 6/24/98 րց/ց Aroclor 1242 ND 0.123 6/24/98 μg/g Aroclor 1248 0.225 0.123 μg/g 6/24/98 Aroclor 1254 ND 0.123 րց/ց 6/24/98 Aroclor 1260 ND 0.123 μg/g 6/24/98 Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQI PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

0.225

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Northeast Analytical Inc.

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR

CUSTOMER ID:

C-5

NEA ID.

AB03358

MATRIX:

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME: 10.30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE FESTED	FLAGS	
SW-846 Method 8082, Polychlo	rinated Biphenyls					
Aroclor 1016	ND	0 249	μg/g	6/24/98		
Aroclor 1221	ND	0.249	μց/ց	6/24/98		
Aroclor 1232	ND	0.249	μg/g	6/24/98		
Aroclor 1242	ND	0 249	μg/g	6/24/98		
Aroclor 1248	181	0 249	μg/g	6/24/98		
Aroclor 1254	ND	0.249	μg/g	6/24/98		
Aroclor 1260	ND	0 249	μg/g	6/24/98		
Total PCB Amount > Reporting I	Limit 181					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc



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CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT JIM ORR

CUSTOMER ID:

C-5(D)

NEA ID:

AB03359

MATRIX

CORBICULA

DATE SAMPLED: 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME: 1030

PROJECT.

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 0244μg/g 6/24/98 Aroclor 1221 ND 0 244 6/24/98 μg/g Aroclor 1232 ND 0.244 6/24/98 μg/g Aroclor 1242 6/24/98 ND 0 244 $\mu g/g$ Aroclor 1248 2.88 0.244 $\mu g/g$ 6/24/98 Aroclor 1254 ND 0 244 μg/g 6/24/98 Aroclor 1260 ND 0 244 6/24/98 μg/g Total PCB Amount > Reporting Limit 2.88

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 6/29/98

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:

C-6

NEA ID:

AB03360

MATRIX:

CORBICULA

DATE SAMPLED. 5/21/98

TIME: N/A

DATE RECEIVED:

6/5/98

TIME. 10 30

PROJECT

SCHLUMBERGER/4517

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	TQ9	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlo	rinated Biphenyls				
Aroclor 1016	ND	0 235	μg/g	6/24/98	
Aroclor 1221	ND	0 235	μg/g	6/24/98	
Aroclor 1232	ND	0 235	μg/g	6/24/98	
Aroclor 1242	ND	0 235	μg/g	6/24/98	
Aroclor 1248	2 10	0 235	μ <u>υ</u> /g	6/24/98	
Aroclor 1254	ND	0 235	μg/g	6/24/98	
Aroclor 1260	ND	0 235	μg/g	6/24/98	
Total PCB Amount > Reporting I	Limit 21				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the POL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Appendix D Data Quality

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 6, 1998

ERM SOUTHEAST, INC.

7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY	CONTROL	SPIKE	% REC	OVERY
AB02346L AMOUNT SPIKED PERCENT RECOVE	RY	= =	0.535 0.495 108%	

	LABORATORY METHOD BLANK
AB0234	$=$ < 0.050 μ g/L

Authorized Signature:

Northeast Analytical, Inc. Robert E. Wagner, Laboratory Director

S \CERT98\050698A ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 5, 1998

ERM SOUTHEAST, INC.

7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY	CONTROL SPIKE	% RECOVERY
AB02081L	=	0.535 μg/L
AMOUNT SPIKED	=	0.495 μg/L
PERCENT RECOVER	Y =	108%

	LABORATORY METHOD	BLANK
AB02081B	= < 0	.050 μg/L

for Dog

Authorized Signature.

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

S \CERT98\050598A ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 20, 1998

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY (CONTROL SPIKE	% RECOVERY	
AB02182L	=	9.63 μg/g	
AMOUNT SPIKED	=	10.3 μg/g	
PERCENT RECOVERY	Y =	93.5%	

	LABORATORY	METHOD	BLANK		
AB02182B		=	< 0.118	μg/g	

Authorized Signature.

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

S \CERT98\052098B ERM REW\JMP

NORTHEAST ANALYTICAL _______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 20, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATO	RY CONTROL	SPIKE	% RECOVERY	
AB02440L AMOUNT SPIK PERCENT REC		= =	9.00 μg/g 10.4 μg/g 86 5%	

	LABORATORY METHOD	BLANK	
AB02440B	=	< 0.118 μg/g	

Authorized Signature:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

S \CERT98\052098A ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 8, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

(continued)

I	JABORATORY	CONTROL	SPIKE %	RECOVER	Y
1	AB02177L		=	11.2	
11	AMOUNT SPIKEI	_	=	9.91	μg/g
]	PERCENT RECO	VERY	=	113%	
į į	AB02143L		=	10.0	μg/g
∐	AMOUNT SPIKEI	D	=	9.87	μg/g
]	PERCENT RECOV	VERY	=	101%	

	LABORATORY	METHOD	BLANK		
AB021	77B	=		< 0.112	μg/g
AB021	43B	=		< 0.112	μg/g

LABORAT	ORY DUPLICATE %	DIFFER	ENCE
	(SV532-11) (SV532-11D) DIFFERENCE	=	3.77 μg/g 3.55 μg/g 6.01%
	(SV535-01) (SV535-01D) DIFFERENCE	=	1 33 μg/g 1 24 μg/g 7.00%

Authorized Signature:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

S \CERT98\050898A ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 15, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

(continued)

LABORATORY CONTRO	L SPIKE % RECOVERY
AB02222L	= 12.1 μg/g
AMOUNT SPIKED	≈ 9 92 μg/g
PERCENT RECOVERY	= 122%
AB02228L	= 12 6 μg/g
AMOUNT SPIKED	$= 10.4 \mu \text{g/g}$
PERCENT RECOVERY	= 121%

LABORA	TORY METHOD BLAN	K		
AB02222B AB02228B	=		0.112 μg/g 0.112 μg/q	

LABORA	TORY DUPLICATE	E % DIF	FERENCE	
11	(SV642-11) (SV642-11D)	=	1.17 μg/g 1.24 μg/g	
li de la companya de	DIFFERENCE	=	5 81%	

Authorized Signature:

Northeast Analytical, Inc./ Robert E. Wagner, Laboratory Director

S \CERT98\051598A ERM REW\JMP

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 7, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

(continued)

LABORATORY CONTROL	SPIKE %	RECOVERY
AB02052L AMOUNT SPIKED PERCENT RECOVERY	= =	10.1 μg/g 9 88 μg/g 102%
AB02077L AMOUNT SPIKED PERCENT RECOVERY	= = =	10 6 μg/g 9.88 μg/g 107%

	BLANK
AB02052B =	< 0.112 μg/g
AB02077B =	< 0.112 μg/g

LABORATORY	DUPLICATE	% DIFFERENCE
AB02074 (SV107-10)	=	1 61 μg/g
AB02430R (SV107-10D)	=	1.26 μg/g
PERCENT DIFFERENCE	=	24.4%
AB02067 (SV107-03)	=	12 5 μg/g
AB02429 (SV107-03D)	=	8.61 $\mu g/g$
PERCENT DIFFERENCE	=	36 8%

Authorized Signature:

Northeast Analytical, Inc. Robert E. Wagner, Laboratory Director

S \CERT98\050698B ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 14, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD., SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX	SPIKE % RECOVERY
AB02196M	= $11.5 \mu g/g$
AMOUNT SPIKED	= 9 62 μg/g
PERCENT RECOVERY	= 114%

LABORATORY MA	TRIX SPIKE DUPLIC	CATE % RECOVERY
AB02196K	=	10.9 μg/g
AMOUNT SPIKE	D =	9 42 μg/g
PERCENT RECOV	VERY =	1118

LABORATORY	MATRIX SPIKE	DIFFERENCE	E % RECOVERY
AB02196M		= 1	14%
AB02196K		= 1	11%
PERCENT D	DIFFERENCE	= 2	67%

LABORATORY CONTROL	SPIKE %	RECOVERY
AB02196L AMOUNT SPIKED	=	11 9 μg/g 10.4 μg/g
PERCENT RECOVERY	=	114%

	LABORATORY	METHOD	BLAN	1K	
AB02196BF			= •	< 0.112	μg/g

LABORATORY DUPLICA	TE % DIFFERENCE
AB02207 (SV641-05)	= 0.304 μg/g
AB02435 (SV641-05D)	= 0.281 μg/g
PERCENT DIFFERENCE	= 7.86%

Authorized Signature Northeast Analytical, Inc.

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS MAY 19, 1998

GENERAL ELECTRIC COMPANY

100 WOODLAWN AVENUE PITTSFIELD, MA 01201 CONTACT: ANDY SILFER

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AB02354M = $10.6 \mu g/g$ AMOUNT SPIKED = $10.3 \mu g/g$ PERCENT RECOVERY = 93.7%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AB02354K = 11.1 μ g/g AMOUNT SPIKED = 10 4 μ g/g PERCENT RECOVERY = 97 6%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AB02354M = 93.7% AB02354K = 97.6% PERCENT DIFFERENCE = 4.08%

LABORATORY CONTROL SPIKE % RECOVERY

AB02354L = 8.91 μ g/g AMOUNT SPIKED = 10.4 μ g/g PERCENT RECOVERY = 85.7%

LABORATORY METHOD BLANK

AB02354B = $< 0.118 \mu g/g$

Authorized Signature:
Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

S \CERT98\052098A GP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 20, 1998

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX	SPIKE %	RECOVERY	
AB02446M	=	26.3 μg/g	
AMOUNT SPIKED PERCENT RECOVERY	=	22.8 μg/g 115%	

LABORATORY	MATRIX SPIKE	DUPLICATE	% RECOVERY
AB02446	K	=	24.5 μg/g
AMOUNT	SPIKED	=	22.6 μg/g
PERCENT	RECOVERY	=	108%

LABORATORY	MATRIX	SPIKE	DIFFERENCE	%	RECOVERY
AB0244			=		.5%
AB0244 PERCEN	6K T DIFFERI	ENCE	==)8% 29%

LABORATORY CONTROL	SPIKE %	RECOVERY
AB02446L AMOUNT SPIKED	=	12.0 μg/g 10 8 μg/g
PERCENT RECOVERY	=	111%

LABORATORY	METHOD BLANK	
AB02446B	=	< 0.118 μg/g

Authorized Signature:
Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

S \CERT98\052098C ERM REW\JMP

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 13, 1998

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX	SPIKE %	RECOVERY	
AB02336M	=	14.2 μg/g	
AMOUNT SPIKED	=	12.3 $\mu g/g$	
PERCENT RECOVERY	=	113%	

LABORATORY	MATRIX SPIKE	DUPLICATE	% RECOVERY
AB02336	5 K	=	13.9 μg/g
AMOUNT PERCENT	SPIKED RECOVERY	=	12 2 μg/g 112%

LABORATORY	MATRIX	SPIKE	DIFFERENCE	%	RECOVERY	
AB0233	6M		=	11	.3%	
AB0233	6 K		=	11	.2%	
PERCEN	T DIFFER	ENCE	=	0.	89%	

LABORATORY CONT	ROL SPIKE % RECOVERY	
AB02336L	= 11.8 μg/g	
AMOUNT SPIKED	= 9.89 μg/g	
PERCENT RECOVERY	= 119%	

LAI	BORATORY	METHOD	BLANK					
AB02336B		=		<	0	112	μg/g	

Authorized Signature · Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 8, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX	SPIKE %	RECOVERY
AB02177M AMOUNT SPIKED	=	10.4 µg/g 9 44 µg/g
PERCENT RECOVERY	=	107%
AB02143M	=	11.4 μ g/g
AMOUNT SPIKED PERCENT RECOVERY	=======================================	9 64 μg/g 111%

LABORATORY MATRIX SPIKE	DUPLICATE	% RECOVERY
AB02177K AMOUNT SPIKED PERCENT RECOVERY	= =	10.8 μg/g 9.64 μg/g 109%
AB02143K AMOUNT SPIKED PERCENT RECOVERY	= = =	11.3 μg/g 9.12 μg/g 117%

LABORATORY MATRIX SPIKE	DIFFERENCE	% RECOVERY
AB02177M	=	107%
AB02177K	=	109%
PERCENT DIFFERENCE	=	1.85%
AB02143M	=	111%
AB02143K	=	117%
PERCENT DIFFERENCE	#	5.26%

Authorized Signature:

Northeast Analytical, Inc/

Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL _________

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS

MAY 7, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRI	X SPIKE %	RECOVERY	
AB02052M AMOUNT SPIKED PERCENT RECOVERY	= =	11.5 μg/g 9 80 μg/g 109%	
AB02077M AMOUNT SPIKED PERCENT RECOVERY	= =	10.1 μg/g 9.20 μg/g 103%	

LABORATORY MATRIX SPIKE	DUPLICATE	% RECOVERY
AB02052K AMOUNT SPIKED PERCENT RECOVERY	= =	11.3 μg/g 9 50 μg/g 111%
AB02077K AMOUNT SPIKED PERCENT RECOVERY	= = =	10 2 μg/g 9.53 μg/g 100%

	LABORATORY MATRIX S	SPIKE DIFFERENCE	% RECOVERY
	AB02052M	=	109%
	AB02052K	=	111%
	PERCENT DIFFEREN	NCE =	1.82%
	AB02077M	=	103%
III	AB02077K	=	100%
	PERCENT DIFFEREN	ICE =	2 96%

Authorized Signature:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 15, 1998

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX	SPIKE %	RECOVERY
AB02222M AMOUNT SPIKED	=	13.8 μg/g 9 48 μg/g
PERCENT RECOVERY	=	132%
AB02228M AMOUNT SPIKED PERCENT RECOVERY	= =	13.0 μg/g 10.1 μg/g 129%

LABORATORY MATRI	IX SPIKE DUPLICA	ATE % RECOVERY	
AB02222K AMOUNT SPIKEI PERCENT RECOV		11 7 μg/g 9.34 μg/g 111%	
AB02228K AMOUNT SPIKEI PERCENT RECOV		13.2 μg/g 10.3 μg/g 128%	

 LABORATORY MATRIX SPIKE	DIFFERENCE	% RECOVERY
AB02222M	=	132%
AB02222K	=	111%
PERCENT DIFFERENCE	=	17 3%
AB02228M	=	129%
AB02228K	=	128%
PERCENT DIFFERENCE	=	0.78%

Authorized Signature.

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

> **CERTIFICATE OF ANALYSIS** 5/5/98

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

CUSTOMER ID:

SV106-107-RB

NEA ID

AB02078

MATRIX:

WATER

DATE SAMPLED: 4/14/98

TIME: N/A

TIME: 945

4/16/98

PROJECT:

SCHLUM

SAMPLED BY:

DATE RECEIVED:

LOCATION:

N/A

CUSTOMER PO:

N/A N/A

LAB ELAP #:

11078

P	ARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
5	SW-846 Method 8082, Polychlor	inated Biphenyls	- · · · · · · ·			
A	Aroclor 1016	ND	0 0556	μg/L	4/29/98	
A	Aroclor 1221	ND	0 0556	μg/L	4/29/98	
, A	Aroclor 1232	ND	0 0556	μg/L	4/29/98	
A	Aroclor 1242	ND	0 0556	μg/L	4/29/98	
A	Aroclor 1248	ND	0 0556	μg/L	4/29/98	
A	Aroclor 1254	ND	0 0556	μg/L	4/29/98	
A	Aroclor 1260	ND	0 0556	μg/L	4/29/98	

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Total PCB Amount > Reporting Limit

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CERTIFICATE OF ANALYSIS 5/5/98

ERM-SOUTHEAST 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027**

CUSTOMER ID:

RB-02

NEA ID:

AB02149

MATRIX:

WATER

DATE SAMPLED: 4/15/98

PROJECT:

SCHLUM

TIME: N/A

SAMPLED BY:

DATE RECEIVED:

4/18/98 N/A

TIME: 11 00

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychl	orinated Biphenyls				
Aroclor 1016	ND	0 050	μg/L	4/29/98	
Aroclor 1221	ND	0 050	μg/L	4/29/98	
Aroclor 1232	ND	0 050	μg/L	4/29/98	
Aroclor 1242	ND	0 050	μg/L	4/29/98	
Aroclor 1248	ND	0 050	μg/L	4/29/98	
Aroclor 1254	ND	0 050	μg/L	4/29/98	
Aroclor 1260	ND	0 050	μg/L	4/29/98	

Total PCB Amount > Reporting Limit

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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CERTIFICATE OF ANALYSIS 5/5/98

ERM- SOUTHEAST 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027

CUSTOMER ID:

RB-03

NEA ID:

AB02150

MATRIX:

WATER

DATE SAMPLED: 4/15/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 11 00

PROJECT.

SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP#.

11078

PARAMETER PERFORMED RESULTS PQL UNITS DATE TESTED **FLAGS** SW-846 Method 8082, Polychlorinated Biphenyls Aroclor 1016 ND 4/30/98 0 050 μg/L Aroclor 1221 ND 0.050 4/30/98 μg/L Aroclor 1232 ND 0 050 μg/L 4/30/98 Aroclor 1242 ND 0 050 μg/L 4/30/98 Aroclor 1248 4/30/98 ND 0 050 μg/L Aroclor 1254 ND 0 050 4/30/98 μg/L 4/30/98 Aroclor 1260 ND 0 050 μg/L

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

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CERTIFICATE OF ANALYSIS 5/5/98

ERM- SOUTHEAST 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT. JIM ORR

CUSTOMER ID:

RB-04

NEA ID:

AB02194

MATRIX:

WATER

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 8 00

PROJECT:

SCHLUM

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polyc	hlorinated Biphenyls				
Aroclor 1016	ND	0 054	μg/L	4/30/98	
Aroclor 1221	ND	0 054	μg/L	4/30/98	
Aroclor 1232	ND	0 054	μg/L	4/30/98	
Aroclor 1242	ND	0 054	μg/L	4/30/98	
Aroclor 1248	ND	0 054	μg/L	4/30/98	
Aroclor 1254	ND	0 054	μg/L	4/30/98	
Aroclor 1260	ND	0 054	μg/L	4/30/98	

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/5/98

ERM- SOUTHEAST 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

RB-05

NEA ID:

AB02195

MATRIX:

WATER

DATE SAMPLED: 4/16/98

TIME: N/A

DATE RECEIVED:

4/18/98

TIME: 800

PROJECT.

SCHLUM

....

SAMPLED BY:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlo	rınated Bıphenyls					
Aroclor 1016	ND	0 053	μg/L	4/30/98		
Aroclor 1221	ND	0 053	μg/L	4/30/98		
Aroclor 1232	ND	0 053	μg/L	4/30/98		
Aroclor 1242	ND	0 053	μg/L	4/30/98		
Aroclor 1248	ND	0 053	μg/L	4/30/98		
Aroclor 1254	ND	0 053	μg/L	4/30/98		
Aroclor 1260	ND	0 053	μg/L	4/30/98		

Total PCB Amount > Reporting Limit

Note $\,$ ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL $\,$

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL الساساسا

ENVIRONMENTAL LAB SERVICES

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> CERTIFICATE OF ANALYSIS 5/5/98

ERM-SOUTHEAST 7106 CROSSROADS BLVD. **SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR**

TIME. 1100

CUSTOMER ID:

RB-06

NEA ID:

AB02241

MATRIX:

WATER

DATE SAMPLED: 4/17/98

4/18/98

PROJECT:

SCHLUM

SAMPLED BY:

DATE RECEIVED:

N/A

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #:

11078

TIME: N/A

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS	
SW-846 Method 8082, Polychlori	nated Biphenyls					
Aroclor 1016	ND	0 050	μg/L	4/30/98		
Aroclor 1221	ND	0 050	μg/L	4/30/98		
Aroclor 1232	ND	0 050	μg/L	4/30/98		
Aroclor 1242	ND	0 050	μg/L	4/30/98		
Aroclor 1248	ND	0 050	μg/L	4/30/98		
Aroclor 1254	ND	0 050	μg/L	4/30/98		
Aroclor 1260	ND	0 050	μg/L	4/30/98		
Total PCB Amount > Reporting Lin	mit 0					

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

Northeast Analytical, Inc

NORTHEAST ANALYTICAL ______

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 5/6/98

ERM- SOUTHEAST 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

RB-07

NEA ID:

AB02347

MATRIX:

WATER

DATE SAMPLED: 4/22/98

.

TIME: N/A

DATE RECEIVED

4/24/98

TIME: 9 30

PROJECT:

4517, SCHLUM

SAMPLED BY:

J ORR

LOCATION:

N/A

CUSTOMER PO:

N/A

LAB ELAP #.

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlori	nated Biphenyls				
Aroclor 1016	ND	0 050	μg/L	4/29/98	
Aroclor 1221	ND	0 050	μg/L	4/29/98	
Aroclor 1232	ND	0 050	μg/L	4/29/98	
Aroclor 1242	ND	0 050	μg/L	4/29/98	
Aroclor 1248	ND	0 050	μg/L	4/29/98	
Aroclor 1254	ND	0 050	μg/L	4/29/98	
Aroclor 1260	ND	0 050	μg/L	4/29/98	
Total PCB Amount > Reporting Lii	nit 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical. Inc

Robert E Wagner Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

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ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS 5/6/98

ERM- SOUTHEAST 7106 CROSSROADS BLVD SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

CUSTOMER ID:

RB-08

NEA ID:

AB02346

MATRIX:

WATER

DATE SAMPLED: 4/22/98

1/22/98 TIME: N/A

DATE RECEIVED:

4/24/98

TIME: 9 30 PROJECT.

4517, SCHLUM

SAMPLED BY:

J ORR

LOCATION.

N/A

CUSTOMER PO:

N/A

LAB ELAP#:

11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE FESTED	FLAGS
SW-846 Method 8082, Polychlor	rinated Biphenyls				
Aroclor 1016	ND	0 050	μg/L	4/29/98	
Aroclor 1221	ND	0 050	μg/L	4/29/98	
Aroclor 1232	ND	0 050	μg/L	4/29/98	
Aroclor 1242	ND	0 050	μg/L	4/29/98	
Aroclor 1248	ND	0 050	μg/L	4/29/98	
Aroclor 1254	ND	0 050	μg/L	4/29/98	
Aroclor 1260	ND	0 050	μg/L	4/29/98	
Total PCB Amount > Reporting L	ımıt 0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

NORTHEAST ANALYTICAL _________

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS

MAY 18, 1998

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

	LABORATORY	DUPLICATE %	DIFFER	ENCE
AB02201	(SV535-23)	=	1.04	μg/g
AB02432	(SV535-23D)	2	0.877	μg/g
PERCENT	DIFFERENCE	=	17.0%	

Authorized Signature Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305 (518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

MAY 13, 1998

ERM SOUTHEAST, INC. 7106 CROSSROADS BLVD. SUITE 228 BRENTWOOD, TN 37027 CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE AB02060R2 (SV106-09) 3.81 $\mu g/g$

AB02428R2 (SV106-09D) $4.63 \, \mu g/g$ PERCENT DIFFERENCE 19.4%

LABORATORY METHOD BLANK

AB02060B $< 0.112 \mu g/g$

Authorized Signature:

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

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